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Knowledge and Attitudes Concerning Civil Defense among Residents of the Washington Metropolitan Area, August 1958

John S. Edelsberg Robert C. Ellickson Donald L. Kripke

Loughlin F. McHugh Hugh B. Price Ann M. Singleterry

Jean G. Taylor

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OPERATIONS RESEARCH OFFICE

THE JOHNS HOPKINS UNIVERSITY BETHESDA, MARYLAND

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CONTENTS

| ACKNOWLEDGMENTS | ii |
|---|-----|
| SUMMARY Problem - Facts - Discussion - Conclusions |] |
| INTRODUCTION | 7 |
| SURVEY SCHEDULE | 7 |
| SAMPLE Geographical Area—Size | 8 |
| RESPONDENTS VS NONRESPONDENTS | 10 |
| ACCURACY OF RESULTS Sampling Errors—Demographic Characteristics | 11 |
| PERCEIVED WAR THREAT | 18 |
| ESTIMATE OF WEAPONS EFFECTS | 23 |
| KNOWLEDGE OF PROTECTIVE AND SURVIVAL MEASURES Warning Signals and CONELRAD | 28 |
| WILLINGNESS TO TAKE PROTECTIVE MEASURES Home Warning Device—Radiation Detection Device—Shelters—Civil Defense Courses | 34 |
| MEDIA FOR CIVIL DEFENSE INFORMATION | 39 |
| EVALUATION OF CIVIL DEFENSE | 42 |
| STATUS OF PUBLIC KNOWLEDGE AND PREPARATION | 44 |
| APPENDIX | |
| A. Survey Questionnaire and Tabulated Responses | 47 |
| REFERENCES | 103 |

| FIGU | RES | |
|------|--|----|
| 1. | Portion of Washington Standard Metropolitan Area | 9 |
| | Covered by Survey | |
| 2. | Characteristics of the 107 Nonrespondents | 12 |
| 3. | Characteristics of the 322 Respondents | 13 |
| 4. | Imminence and Threat of War | 21 |
| 5. | Survival Chances and H-Bomb Mortality Radius | 24 |
| | Knowledge of Bomb Effects | 27 |
| 7. | Preparation Measures | 29 |
| 8. | Knowledge of Warning Signals and CONELRAD | 32 |
| 9. | Action if Warning Given | 32 |
| 10. | Willingness to Buy Protection Devices | 35 |
| 11. | Family Shelter Construction | 35 |
| 12. | Experience with and Attitude toward First-Aid Course | 40 |
| 13. | Media for Civil Defense Information | 40 |
| 14. | Evaluation of Civil Defense | 43 |
| | | |
| | | |
| TABI | | |
| l. | Original Sample, Respondents, Nonrespondents, and | 11 |
| | Nonexistent Addresses, by Area | |
| | Sampling Errors | 14 |
| | Distribution by Race in Sample and in Total Population | 15 |
| 4. | Distribution by Sex in Population 18 Years and Over in | 15 |
| _ | Sample and in Total Population | |
| 5. | | 16 |
| | in Sample and in Standard Metropolitan Area | |
| 6. | Distribution by Age in Sample and in Standard | 16 |
| _ | Metropolitan Area | |
| | Distribution of Income in Sample and in Total Population | 17 |
| | Imminence of War | 19 |
| 9. | Likelihood of Washington Being Attacked Related to | 20 |
| | Likelihood of War in 2 Years | |
| 10. | Likelihood of Bomb on Washington Related to Likelihood | 22 |
| | of War in 2 Years | |
| 11. | Chance of Survival Related to Likelihood of Washington | 23 |
| | Being Attacked and a Bomb Being Dropped | |
| 12. | Chance of Survival Related to Estimate of H-Bomb | 25 |
| | Mortality Radius | |

SUMMARY

PROBLEM

To determine for the Washington area the present state of the public's preparedness for an enemy attack and its willingness to take protective measures.

FACTS

An informed public is better equipped to protect itself from the effects of a thermonuclear weapon and probably has a greater chance of surviving an enemy attack than an uninformed public. Some European countries are making concerted efforts to train their inhabitants; others are emphasizing construction and use of underground shelters. West Germany, Sweden, Switzerland, and Luxembourg have sizable shelter construction and civil defense training programs.

Russia appears not only to have built shelters in large cities under the guise of subways but also to have mobilized the population into what might be described as a civilian reserve army for action in the event of an attack. By 1957 about 40 million Russians had been trained in basic civil defense measures. In 1958 every Soviet citizen was required to take a 22-hr training course in civil defense. Today there is a mass civil defense educational program underway. Since 1957 a 1-hr film on atomic warfare has been shown throughout Russia—over TV, in the theaters, and at collective farms. It is interesting to note that in the film the populace is being herded into underground shelters.

In the US the Federal Civil Defense Administration (FCDA) was created by the Federal Civil Defense Act of 1950, Public Law 920, passed January 12, 1951, by the 81st Congress. This office was merged with the Office of Defense Mobilization in 1958 and is now known as the Office of Civil and Defense Mobilization (OCDM).

The efforts of the civil defense agencies have been largely those of training key people, improving the warning system, encouraging local survival plans, stockpiling strategic materials and emergency equipment, and pursuing a research and development program on shelter types, warning devices, and radiological detection devices. Local civil defense organizations are autonomous; OCDM acts in an advisory capacity. County and city organizations are accountable to their respective states; the states are free, within quite wide bounds, to pursue their programs.

Efforts to reach the public have been made through courses, publications, and mass media, e.g., radio, TV, and newspapers. In FY56 FCDA distributed and sold over 145 million copies of publications dealing with various aspects of civil defense. A large part of these were manuals, bulletins, and handbooks for use by civil defense officials and for training leaders:

By June 1957 about 15,000 persons had received instruction in the 65 training courses conducted by FCDA. Local civil defense courses are given that are not accounted for in this figure, e.g., Montgomery County graduated 300 persons during 1957-1958 from an adult-education civil defense class. Added together throughout the country, those taking such local courses would undoubtedly represent only a small percentage of the population.

DISCUSSION

Washington, D.C., as the nation's capital, might well be assumed to have a more informed and prepared public. Sixteen percent of the metropolitan-area residents are employed by the federal government; they might be expected to be better informed about and more motivated to take protective measures.

To determine the status of the public's knowledge of bomb effects and protective measures (those that have been taken or those the public is willing to take), a survey was conducted in the Washington area. The general attitude toward the threat of war and the purpose of civil defense was also investigated in relation to the public's state of preparedness.

Of 451 addresses selected at random in the Washington area, residents at 322 could be located and were willing to cooperate by being interviewed. The results are accurate to within approximately 5 percent—sufficient accuracy for the purposes of this study.

The results of the survey are given in detail in the body of this paper; actual tabulations and cross correlations of individual questions are given in App A.

Briefly, only about 1 out of 10 persons sees better than an even chance of another war occurring; only 4 out of 10 see any chance of it occurring in the next 20 years. Regardless of the group's feeling about the imminence of war, the majority feels that if there were another war, Washington would be attacked, the enemy would succeed in delivering a weapon, and the population's chances of surviving would be poor.

The effects of nuclear weapons are not well known. Similarly, knowledge of protective measures is not widespread. Almost no families have taken any measures to protect themselves. Especially poor is the public's knowledge of warning signals and the use of the radio for information. In general, the better informed are the younger (under 45) and the better educated members of the population.

The public does seem willing to take measures to protect itself. About one-half of the persons surveyed indicated a willingness to purchase a home warning device, about one-fourth of those who have space would build a \$100 do-it-yourself shelter, and one-fifth would buy a radiation detection device.

Many of the people surveyed are willing to take a civil defense course and a first-aid course. There is general support of a compulsory work program of 1 hr per week in civil defense and of a federally financed shelter program that would require increased taxes.

The Washington residents expressed a desire for more information on civil defense and measures of protection. Information has generally been received through pamphlets, TV, and radio in the past. These media, as well as courses and personal contact, are favored as media for civil defense information.

The public favors the purpose and organizations of civil defense. Knowledge of local civil defense office activities is generally lacking but an increased effort by civil defense is generally favored.

CONCLUSIONS

- l. The Washington-area population recognizes that a nuclear attack on the city would be disastrous but does not consider such an attack imminent.
- 2. In general the public's knowledge of protective measures for the family in the event of a nuclear attack is inadequate; few can name more than one protective measure that should be taken.
- 3. The public has not made any preparation for protection against the effects of a nuclear attack although some expressed a willingness to provide themselves with measures of protection.
- 4. The public supports the purpose of civil defense and expressed a desire for more information on civil defense.

KNOWLEDGE AND ATTITUDES CONCERNING CIVIL DEFENSE AMONG RESIDENTS OF THE WASHINGTON METROPOLITAN AREA August 1958

INTRODUCTION

To design an effective civil defense public information and education program it is important to determine the probable motivational factors for taking protective measures, the present state of the public's knowledge, and the extent of the public's willingness to make preparations. One readily available method of evaluating these factors is to survey a representative group, using a schedule designed to properly evaluate the primary areas of motivation, knowledge, and willingness. This method, which has been used on a nationwide^{1, 2} and local³ basis, was employed to determine for the greater Washington area answers in the following basic problem areas:

- (a) What is the public's estimate of the threat of war?
- (b) What is the state of the public's knowledge of bomb effects and measures of preparedness? Has the public's opinion of the threat of war affected its knowledge of civil defense measures?
- (c) How willing is the public to take protective measures? Is this willingness related to the perceived war threat?
 - (d) What is the public's attitude toward civil defense?

SURVEY SCHEDULE

The survey schedule, *designed to be individually administered by an interviewer, consisted of some 46 questions. In addition certain demographic characteristics were determined: sex, age, education, income, race, and house type. The following is a list of topics covered by the questions in the primary problem areas:

- (1) Perceived war threat
 - (a) Imminence of war
 - (b) Likelihood of Washington being attacked
 - (c) Likelihood of a bomb on Washington

^{*}The 46 questions included in the survey are given in App A with the tabulated responses.

- (d) Mortality radius of H-bomb
- (e) Estimated chance of survival

(2)Knowledge of bomb effects and measures of preparedness

- (a) Causes of death
- (b) Knowledge of warning signals
- (c) Probable action on attack signal
- (d) Knowledge of CONELRAD
- (e) Knowledge of measures of family preparedness

(3) Willingness to take protective measures

- (a) Protective measures that have been taken
- (b) Reasons why protective measures have not been taken
- (c) Willingness to purchase civil defense devices, build home shelters
- (d) Willingness to take courses and receive information

(4)Attitude toward civil defense

- (a) Opinion of civil defense
- (b) Knowledge of local civil defense activity

The schedule was pretested by the five interviewers on a sample of employees of The Johns Hopkins University Operations Research Office.

SAMPLE

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Geographical Area

The area covered by the survey is shown in Fig. 1. All of the District of Columbia, Arlington County and Alexandria in Virginia, and portions of Montgomery and Prince Georges Counties in Maryland were included. These areas are indicated on the map in Fig. 1, which shows the Washington standard metropolitan area as defined by the US Census Bureau. In 1958 the population of the standard metropolitan area was estimated to be approximately 2 million. Although the area covered by the survey comprises only 16 percent of the total square miles of the standard metropolitan area, it does include 78 percent of the population.

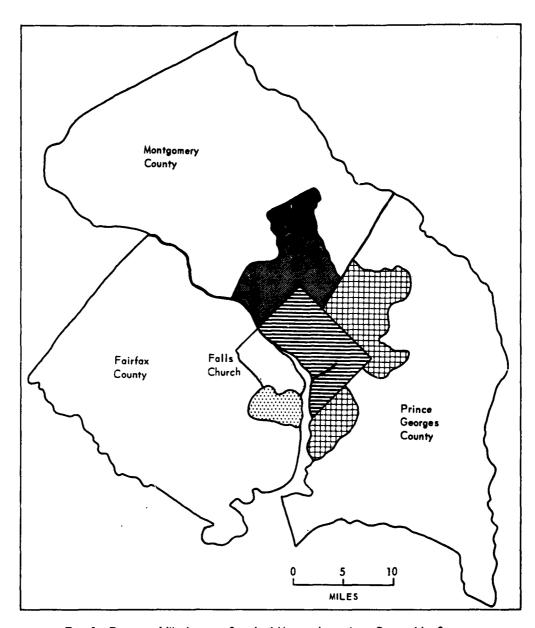


Fig. 1—Portion of Washington Standard Metropolitan Area Covered by Survey

| Area | Population, thous | | Key | No. | Percent |
|-----------------------|-------------------|--------------------|-----------------------|--------------|--------------------|
| | Area | Portion sampled | of portion sampled | in sample | of total sample |
| District of Columbia | 865 | 865 | | 249 | 55 |
| Montgomery County | 317 | 232.5 | | 67 | 15 |
| Prince Georges County | 336 | 208 | | 60 | 13 |
| Arlington County | 169 | 169 | ESTERMINE | 50 | 11 |
| Alexandria | 90 | 90 | ****** | 25 | 6 |
| Falls Church | 10 | 0 | | 0 | 0 |
| Fairfax County | 218 | 0 | | 0 | 0 |
| Totals | 2005 | 1564.5 | | 451 | 100 |

Size

A sample size of 451 was chosen, which, after allowing for refusals and nonexistent addresses, would yield results accurate to within 5 percent of the true value. The 451 addresses were taken at random from the D. C. and Alexandria city directories and the Arlington, Montgomery, and Prince Georges County directories. The proportion of the sample taken from each of the directories was determined by the percentage of the population of that area included in the total area sampled. Thus 55 percent of the total sample of 451, or 249 addresses, were taken from the D. C. directory; 15 percent, or 67, from the Montgomery County directory; etc. (see table accompanying Fig. 1).

The interviewers conducting the survey also asked the person answering the door to name all residents of the dwelling over 18, and then, using a random number table, picked a resident to be interviewed. When no one was home, the interviewer went to the house on the left.

It should be noted that several factors may have affected the randomness of the sample. In the directories married couples were listed on a single line; unmarried adults, therefore, had a greater chance of being picked. Households where English was not spoken were excluded. In some instances the member of the household picked for interviewing preferred that some other member be interviewed.

RESPONDENTS VS NONRESPONDENTS

The sample contained 451 addresses. (See Table 1.) Twenty-two of these could not be located and were placed in a "nonexistent" category. Twenty-four percent refused to be interviewed. Although the original sample size was thus reduced by 29 percent to 322 interviews, the distribution of these interviews by areas remained essentially the same as the original sample distribution. Many refusals were caused by the belief that the interviewers were really trying to sell something; this was especially true in Prince Georges County, where University of Maryland students often sell books and magazines. Characteristics of the nonrespondents are shown in Fig. 2; those of respondents in Fig. 3. In general there were no discernible outstanding differences between the groups. Eight out of ten nonrespondents were white; seven out of ten respondents were white. Six out of ten nonrespondents were female; five out of ten respondents were female.

Table 1
ORIGINAL SAMPLE, RESPONDENTS, NONRESPONDENTS,
AND NONEXISTENT ADDRESSES, BY AREA

| Area | Orig sam | ginal ple | The state of the s | | | respondents | | Nonexistent åddresses | |
|----------------|-------------|--------------|--|-----|-----|-------------|-----|--------------------------|--|
| .1 | No. | % | No. | % | No. | 1% | No. | 1% | |
| District of | | | | | · · | | | 7 | |
| Columbia | 249 | 55 | 181 | 56 | 53 | 50 | 15 | 68 | |
| Prince Georges | | | | | | | | | |
| County | 60 | 13 | 35 | 11 | 23 | 21 | 2 | 9 | |
| Montgomery | | | | | | | | | |
| County | 67 | 15 | 51 | 16 | 14 | 13 | 2 | 9 | |
| Arlington | | | | | | | | | |
| County | 50 | 11 | 37 | h | 13 | 12 | 0 | 0 | |
| Alexandria | 25 | 6 | 18 | 6 | 4 | 4 | 3 | 14 | |
| Total | 451 | 100 | 322 | 100 | 107 | 100 | 22 | 100 | |

ACCURACY OF RESULTS

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Sampling Errors

As contrasted with quota sampling, the process used in this survey was probability sampling. In simple, random, probability sampling one does not start with the known census distribution of certain characteristics and locate the sample accordingly; rather, one starts with the whole population of the defined area, and each individual has an equal chance of being chosen. Using this sampling procedure, approximate sampling errors can be determined and the results can be considered accurate within certain stated limits. Table 2 gives the accuracy of the results of the survey of 322 residents in the Washington area. If subsamples are taken the error is increased (e.g., a subsample of 50 increases the error by 3).

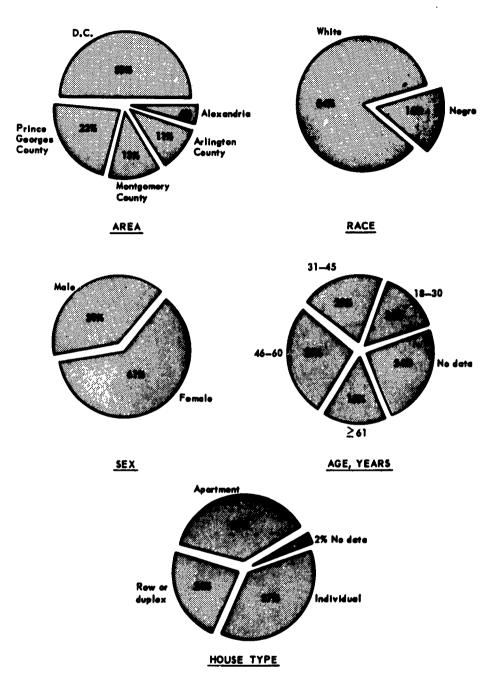


Fig. 2—Characteristics of the 107 Nonrespondents

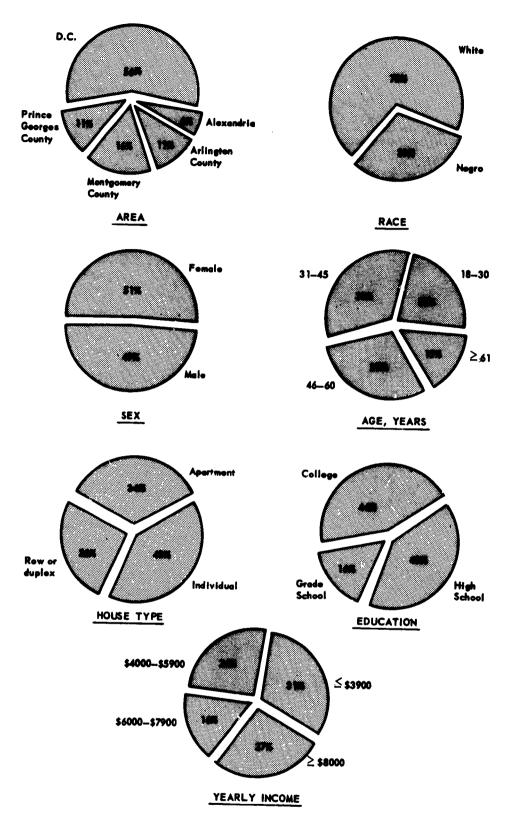


Fig. 3—Characteristics of the 322 Respondents

Table 2
SAMPLING ERRORS

| Sample percent for a sample of 322 | Sampling error, % |
|------------------------------------|----------------------|
| 50-50 | 5.6 |
| 40-60 | 5.5 |
| 30-70 | 5.1 |
| 20-80 | 4.5 |
| 10-90 | 3.4 |
| 5 - 95 | 2.4 |

The chances are 95 in 100 that the true value lies within a range equal to the sample percent, plus or minus the number of percentage points shown in Table 2. It can thus be stated with a high degree of confidence that the results of the survey are within 5 percent of the true value.

Demographic Characteristics

Sample distribution by race, sex, education, age, and income is compared with distribution in the total population of the Washington metropolitan area in Tables 3 to 7.

Table 3

DISTRIBUTION BY RACE IN SAMPLE
AND IN TOTAL POPULATION

| | Sam | ple | Total population, % a, s | | | |
|----------|-----|-----|--------------------------|-------------|--|--|
| Race | No. | % | Metropolitan area | Survey area | | |
| White | 225 | 70 | 76 | 71 | | |
| Nonwhite | 97 | 30 | 24 | 29 | | |
| Total | 322 | 100 | 100 | 100 | | |

^a Here 6 and 6.3 percent nonwhite for Virginia and Maryland areas respectively in standard metropolitan area applied to sample-area population yields estimate of total population of survey area.

Table 4

DISTRIBUTION BY SEX IN POPULATION
18 YEARS AND OVER IN SAMPLE
AND IN TOTAL POPULATION

| | Sam | ple | |
|--------|-----|-----|-----------------------|
| Sex | No. | % | Total population, % 7 |
| Male | 157 | 49 | 48 |
| Female | 165 | 51 | 52 |
| Total | 322 | 100 | 100 |

Table 5

EDUCATIONAL ATTAINMENT OF SAMPLE POPULATION
AND POPULATION 25 YEARS AND OVER IN
STANDARD METROPOLITAN AREA

| | San | aple | |
|--------------|-------------|------|---|
| Education | No. | °/o | Metropolitan area, ⁰ / ₀ ⁸ |
| College | 142 | 44 | 27 |
| High school | 129 | 40 | 40 |
| Grade school | 51 | 16 | 28 |
| None | | | 1 |
| Not reported | | | 4 |
| Total | 322 | 100 | 100 |

Table 6

DISTRIBUTION BY AGE IN SAMPLE AND IN STANDARD METROPOLITAN AREA

| | San | nple | |
|------------|-------------|------------|--------------------------|
| Age, years | , years No. | | Metropolitan area, °/2 ' |
| 18 ~ 30 | 76 | 23 | 27 |
| 31 - 45 | 106 | 33 | 33 |
| 46 - 60 | 92 | 2 9 | 26 |
| 61 + | 48 | 15 | 14 |
| Total | 322 | 100 | , 100 |

Table 7

DISTRIBUTION OF INCOME IN SAMPLE AND IN TOTAL POPULATION

| A | Median income, dollars | | | |
|-----------------------|------------------------|-------------------------------|--|--|
| Area | Sample | Total population ⁸ | | |
| District of Columbia | 4080 | 5522 | | |
| Prince Georges County | 6515 | 6560 | | |
| Montgomery County | 8135 | 8595 | | |
| Arlington County | 7575 | 7140 | | |
| Alexandria | 6800 | 6565 | | |

The distributions are comparable for race, sex, and age. There is a higher percentage of people with college education and a lower percentage of those with grade school education in the sample as compared with the total population. Except for the District of Columbia, where the median income of the sample is \$4000 and that of the total population \$5500, the median incomes for the sample are within \$500 of those for the total population of the areas.

The distribution of income, education, and race within the sample is not equal. Three-fourths of those with incomes over \$8000 live in the suburbs, whereas nine-tenths of those with incomes under \$4000 live within the District of Columbia. Similarly 70 percent of those with grade school education live within the District. Members of the suburban population have predominately college or high school education. Ninety-seven percent of the Negro respondents are residents of the District. The relations that exist between any one of these characteristics of the sample and the response to survey questions hold in general for the other characteristics.

PERCEIVED WAR THREAT

The perceived threat of war is a motivational factor that can result in constructive protective actions. If the threat appears too great, the results of war so devastating as to make protective measures seem futile, then the threat may serve to negatively motivate the population. Generally speaking, however, a concern for war danger should increase the desire for knowledge of and willingness to procure protective measures. A study in 1952 by the Survey Research Center (SRC) showed that as concern over war danger increases so favorable evaluation of civil defense increases. However, the results indicate that regardless of the level of motivation (concern for war danger) or information, willingness to volunteer for civil defense tasks is highest among those with high opinions of civil defense.

The problem of determining what factors prompt individuals to take protective measures and participate in civil defense is indeed a complex one. There are doubtlessly many factors that contribute in varying amounts, e.g., perceived war threat, knowledge of bomb effects, economic considerations, etc. It is obvious, however, that unless a need for measures of survival is seen, no actions will be taken regardless of individual and family considerations. There must be a potential danger; there must also be a chance of surviving it.

A series of questions asked the Washington public were designed to establish public evaluation of the imminence and threat of war. Two out of ten felt that if a world war started it would be likely to occur within the next 5 years. Sixteen percent felt war was 5 years or more away; 13 percent felt it would never occur. One-half of the respondents did not express an opinion (see Table 8).* Thirty percent of those who felt that there would

^{*}The 1954 SRC survey includes a similar question (Ref 2, p 56). In general the results showed higher percentages in each time period because 30 compared with 48 percent in the Washington survey fell in the "Don't know" category. The one exception is that 2 percent of the SRC respondents saw war likely in the next 6 months, whereas 5 percent in this survey stated they felt war was likely within 6 months. This may be partly accounted for by the fact that the Washington survey was done during a period of about 2 weeks to 1 month after the July 1958 Middle East crisis.

Table 8
IMMINENCE OF WAR

(Q. If a world war comes, when do you think it is likely to start?)

| Response | Respondents, % | | |
|----------------------|----------------|--|--|
| Less than 6 months | 5 | | |
| 6 months to 2 years | 10 | | |
| 2 years to 5 years | 8 | | |
| 5 years to 10 years | 8 | | |
| 10 years to 20 years | 7 | | |
| Over 20 years | 1 | | |
| Never | 13 | | |
| Don't know | 48 | | |
| Total | 100 | | |

be another war gave the chances of its occurring as better than 50 percent. This represents Il percent of the sample.* There has been a steady decline in the number of people who see a better than 50 percent chance of another war. In 1950 approximately 70 percent felt there was better than an even chance that there would be another world war; in 1952 this dropped to 60 percent; and in 1954 it dropped still farther to 47 percent. (Ref 2, p 50). In this Washington survey only approximately one out of ten persons sees better than an even chance for another war.

Those with college education expressed an opinion more frequently and felt war was more imminent than those with high school or grade school education. There was no difference in response between age groups except for those over 60 years—one-quarter of this group felt there would be no war, and over one-half expressed no opinion.

^{*}Supporting tables of survey results appear in App A.

Asked specifically how likely world war in 2 years or less was, one out of four felt the chances were fifty-fifty or better, one out of ten felt there was better than an even chance. One-half felt there would be no war in 2 years or thought the chances were only slight (see Fig. 4). There was a tendency for the residents of D. C. proper to feel that there was more likelihood of war in 2 years than for residents of outlying areas.

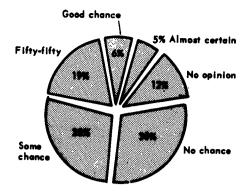
Regardless of the opinion held concerning the imminence of war, 6 out of 10 respondents said that in the event of a world war there was a good chance the Washington area would be a target (Fig. 4 and Table 9). This compares with a nationwide survey in 1953 in which 50 percent of the people in cities of over 500,000 (including Washington) felt there was a good chance their city would be a target.¹⁰

Table 9

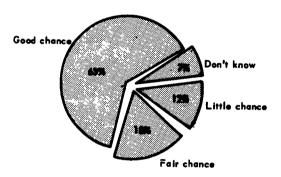
LIKELIHOOD OF WASHINGTON BEING ATTACKED RELATED TO LIKELIHOOD OF WAR IN 2 YEARS

| Chance of war in 2 years | Cha | Chance of Washington being attacked | | | | | |
|---|----------------|-------------------------------------|------|------------|-------|--|--|
| | Good | Fair | Poor | Don't know | Total | | |
| | Respondents, % | | | | | | |
| Better than 50% (N = 35) ^a | 5 7 | 23 | 14 | 6 | 100 | | |
| Fifty-fifty (N = 62) | 58 | 26 | 13 | 3 | 100 | | |
| Less than 50% (N = 185) | 66 | 18 | 12 | 4 | 100 | | |
| No opinion (N = 40) | 60 | 5 | 8 | 27 | 100 | | |

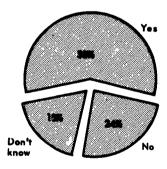
 $^{^{}a}$ N = number of respondents.



LIKELIHOOD OF WAR WITHIN 2 YEARS



LIKELIHOOD OF D. C. BEING ATTACKED



WOULD ENEMY SUCCEED IN DELIVERING
A-LOMB ON D. C.?

Fig. 4—imminence and Threat of War

Those under 60 years of age and those with college education tended to express more frequently the opinion that Washington would be a target. Furthermore, the chance of Washington being a target was seen as good more often by residents of outlying areas (70 percent) than by residents of D. C. proper (57 percent).

The effectiveness of the active defense measures is seen as less than perfect by the public. More than one-half (58 percent) of the respondents said that if Washington were attacked at the present time, the enemy would succeed in bombing the city (Fig. 4). Fourteen percent of the public expressed the opinions that there was a 50 percent or better chance of war in 2 years, that Washington would be a target, and that the enemy would succeed in dropping a bomb on the city. Regardless, though, of how likely war seems within the next 2 years, the majority of those who feel there is a good chance of Washington being attacked feel that the enemy will succeed in bombing Washington (see Table 10).

Table 10

LIKELIHOOD OF BOMB ON WASHINGTON RELATED TO
LIKELIHOOD OF WAR IN 2 YEARS

(Among respondents who feel good chance Washington would be attacked)

| | | | · | | |
|------------------------------------|--------------------|----|------------|-------|--|
| Chance of war | Bomb on Washington | | | | |
| | Yes | No | Don't know | Total | |
| | Respondents, % | | | | |
| Better than 50% (N = $20)^a$ | 80 | 10 | 10 | 100 | |
| $Fifty-fifty \\ (N = 36)$ | 78 | 14 | 8 | 100 | |
| Less than 50% (N = 122) | 76 | 16 | 8 | 100 | |
| Don't know $(N = 24)$ | 46 | 12 | 42 | 100 | |

a N = number of respondents.

O'MAT. TTY BEST POSSIBLE REPRODUCTION

This feeting that Washington is vulnerable is held regardless of age, but more frequently by college educated persons and residents of outlying areas. Three out of ten of the residents of D. C. proper feel that the enemy would not succeed in dropping a bomb.

ESTIMATE OF WEAPONS EFFECTS

The public does not see its chances of surviving an attack as good (see Fig. 5). Eight persons out of ten believe that their survival chances are 50 percent or less. Only 12 percent see their survival chances as good or excellent. Seven out of ten of those people who believe there is a good chance of Washington being attacked and of a bomb being dropped also believe their chances of survival are less than 50 percent (Table 11).

Table 11

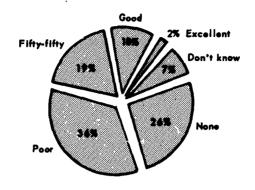
CHANCE OF SURVIVAL RELATED TO LIKELIHOOD OF WASHINGTON BEING ATTACKED AND A BOMB BEING DROPPED

(Among respondents who believe a bomb would be dropped)

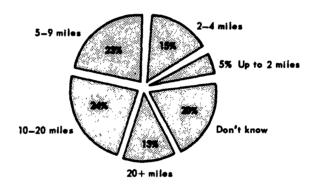
| Chance Washing - ton will be attacked | Chance of survival | | | | | |
|---|--------------------|-----------------|---------------|---------------|-------|--|
| | Better than 50% | Fifty- fifty | Less than 50% | Don't know | Total | |
| | Respondents, % | | | | | |
| $Good (N = 147)^{a}$ | 10 | 19 | 68 | 3 | 100 | |
| Fair $(N = 22)$ | 9 | 32 | 54 | 5 | 100 | |
| Poor $(N = 14)$ | 21 | 14 | 57 | 7 | 100 | |

a N = number of respondents.

This represents approximately one-third of the public. Six percent thought that chances of a war in the next 2 years were good or almost certain, that there was a good chance of Washington being attacked, and that the likelihood of their surviving was 50 percent or less. The majority, 41 percent,



CHANCES OF SURVIVING ATTACK IF AT HOME



RADIUS OF TOTAL DEATHS FROM H-BOMB ON D.C. TODAY

Fig. 5—Survival Chances and H-Bomb Mortality Radius

THE ORIGINAL DOCUMENT WAS OF POOR QUALITY. BEST POSSIBLE REPRODUCTION FROM COPY FURNISHED ASTIA.

felt that there was a good chance Washington would be a target and that likelihood of servival was 50 percent or less but felt that war in the next 2 years was unlikely. The destructive power of an H-bomb attack is not generally underestimated, and there is not even much doubt about Washington being attacked in the event of a world war; the critical factor is the likelihood of war in the near future (2 years or less).

The public's estimate of survival chance is related to its estimate of the mortality radius of the H-bomb. Eight out of ten of those persons who believe that almost everybody will be killed within 20 miles from where the bomb falls also estimate their survival chances as less than 50 percent; five out of ten who believe the mortality radius is within 5 miles of the burst point see a 50 percent or better chance of survival (Table 12).

Table 12

CHANCE OF SURVIVAL RELATED TO ESTIMATE OF H-BOMB MORTALITY RADIUS

| Estimate of H-bomb mortality radius | | Chance of survival | | | | | | |
|-------------------------------------|-----------------|--------------------|---------------|---------------|-------|--|--|--|
| | Better than 50% | Fifty- fifty | Less than 50% | Don't know | Total | | | |
| | Respondents, % | | | | | | | |
| Up to 5 miles $(N = 65)^a$ | 20 | 28 | 51 | 1 | 100 | | | |
| 5-10 miles (N = 74) | 11 | 24 | 64 | 1 | 100 | | | |
| 10-20 miles (N = 77) | 10 | 19 | 71 | 0 | 100 | | | |
| Over 20 miles (N = 43) | 7 | 12 | 81 | 0 | 100 | | | |
| Don't know (N = 63) | 11 | 8 | 49 | 32 | 100 | | | |

a N = number of respondents.

Six out of ten persons expect the mortality radius of the H-bomb to extend 5 miles or more beyond the burst point. The 20 percent who said the mortality radius was less than 5 miles underestimated the lethal effects of the H-bomb, which would currently probably be delivered by manned bomber. Under the conditions today, as specified by the question (with no special shelter), almost everybody within 6 to 10 miles of the burst point of a 10-MT weapon would be killed. Secondary effects from fires might cause extensive destruction within a radius of some 20 miles. In general, though, destruction from an H-bomb delivered today that would "kill almost everybody" would be confined to from 6 to 10 miles. Four out of ten people overestimated the mortality radius (10 miles or more); these were generally the younger residents of the area. This tendency to overestimate the mortality radius of the H-bomb was also found in the 1954 nationwide survey (Ref 2, p 64). Two out of ten persons said they did not know what the mortality radius would be. About onequarter of the people believed the mortality radius would be from 5 to 10 miles, the most probable figure.

Radiation and blast were considered the most destructive effects of in atomic attack (Fig. 6). Four out of 10 persons listed radiation as a chief cause of death; when specifically asked if they had heard or read anything about fallout, three-quarters indicated they had. The younger and the more educated showed more knowledge of bomb effects and had more often heard of fallout. Those who estimated the mortality radius of the H-bomb as over 20 miles more often gave radiation as a cause of death than either blast or fires. Those who confined the mortality radius to 5 miles gave blast and radiation as causes of death with equal frequency. There was no difference in the frequency with which fires were mentioned.

Too few people (12 percent) recognized the danger of fire and burns from the initial thermal pulse and secondary fires. Third-degree burns can be experienced at a distance of some 20 miles from the point of burst of a 10-MT weapon. At this same distance the blast effect (1 lb/sq in) would be minor—broken windows, furniture, etc.—and the initial radiation minor. The phenomena of conflagration and fire storms are not completely understood, but there is a high probability that uncontrollable fires from a multiple-bomb attack would extend in a radius of from 10 to 15 miles from the center of a metropolitan area.

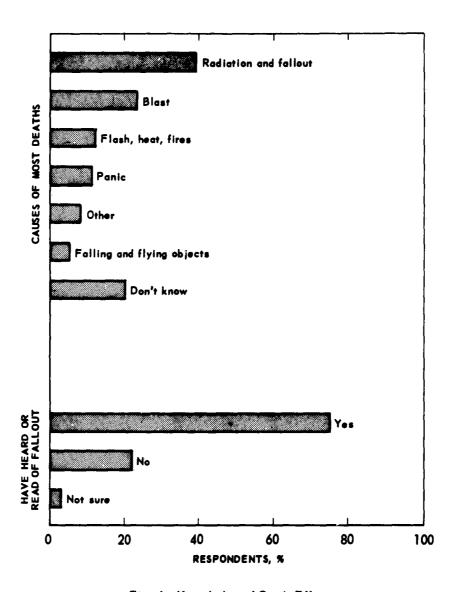


Fig. 6—Knowledge of Bomb Effects

Those who see a good likelihood of a war in the near future, feel that Washington would be attacked, believe that a bomb would be dropped, and/or that their chances of survival would be poor tend to know more about the causes of death and emphasize the danger of radiation. Those who do not express opinions on the threat and imminence of war more frequently do not know what would cause the deaths in the event of an attack. Similarly those who have not heard or read about fallout tend not to be able to name any causes of death.

KNOWLEDGE OF PROTECTIVE AND SURVIVAL MEASURES

In 1952 a nationwide survey showed that 63 percent of the population had some information about what should be done to protect oneself in the event of an attack. By 1954 this percentage had increased to 78 (Ref 2, p 79). The information was generally confined to realizing that basements or cellars could be used as shelters. Hardly anyone reported having taken definite measures for protection other than having at hand normal household preparation for accidents—such as first-aid kits.

In the Washington-area survey 72 percent of the people said they had heard or read something about what should be done now for the family's safety in case of an attack; few could name more than one protective measure that should be taken. Those in the high income and education bracket more frequently said they knew some preparation measures. Four out of five suburban residents as contrasted to three out of five D. C. residents felt they knew some protective measures. It is of interest to note that those who feel that there is a greater likelihood of war within 2 years or that the enemy will succeed in dropping a bomb on Washington tend to have heard more frequently of preparation measures.

Over one-half of the respondents stated that they had heard one should stock food, two out of ten mentioned preparing a shelter area, and one out of ten mentioned building a shelter. There is a tendency for the higher-income and more educated groups to have heard more frequently of shelter measures. Only I percent mentioned knowledge of evacuation routes as a preparation measure. Those who stated they had taken a measure to protect their family numbered only 17 percent. Of those who could actually name a measure of preparation only 24 percent had actually taken any measure for protection. As can be seen in Fig. 7, these are generally

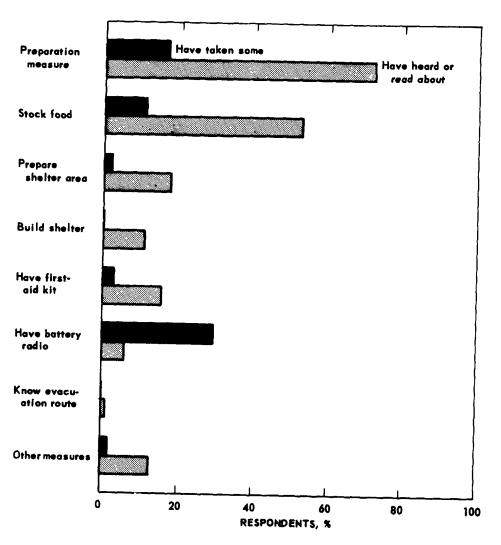


Fig. 7—Preparation Measures

Have taken the measure

Have heard or read about the measure

^{*}Question specifically asked if battery-operated radio was owned.

normal household preparations, e.g., weekly grocery buying, a first-aid kit, etc. About one-third of the population, when specifically asked, said they did have a battery-operated radio.

In general the public's knowledge of preparation measures is inadequate, and in effect no protective measures have been taken. The recently distributed OCDM "Handbook for Emergencies" lists three phases of family preparedness: (a) home shelter, (b) disaster know-how, and (c) first aid. Home-shelter measures include selecting and stocking a safe area in the home. This measure has been taken by only 2 percent of the public in the Washington area. The status of "disaster know-how" was not determined in this survey, but it is probably comparable to the public's knowledge of first aid. Although one-half of the respondents said they had taken a first-aid course, and 15 percent had taken it within the last 5 years, only 2 out of 10 said they knew the proper treatment for serious burns. Actually, only 3 percent of the total survey group could correctly state the treatment for serious burns.

Two out of five of those who had heard of protective measures said they had not taken any protective measures because the threat of enemy attack was not great enough; conversely, one out of five felt protective measures were useless because the threat and consequences were too great. Others mentioned a general feeling of complacency, lack of a government plan, and lack of space.

There apparently is no consistency between reasons given for not taking preparation measures and the perceived threat of war. Those who had seen Washington as a target or the enemy succeeding in dropping a bomb on the city did not give as the reason for lack of preparation measures "too great a threat" any more frequently than they gave "lack of threat."

Warning Signals and CONELRAD

In the event of an attack general public warning will be given by siren signals, and more specific information and instructions will be given over the radio on two wave lengths only. The two siren warning signals are a long steady blast (ALERT), which indicates that conditions are such that an enemy attack might take place, and a 3-min warbling tone on sirens (TAKE COVER), signifying take cover immediately in the best available shelter. These signals have been publicized

through pamphlets, posters, and practice siren tests. Probably the most widely publicized aspect of civil defense is that the warning of an enemy attack will be given by sirens, which may account for seven out of ten respondents saying they know the warning signal. Those with more education and the suburban residents more often tended to state they knew what the warning signals were.

When respondents were asked to describe the nature of the warning signals it was evident that a good deal of confusion and misinformation exists among the population. Only one-fourth of the sample could correctly identify at least one of the warning signals (either ALERT or TAKE COVER); 16 percent did not even know that sirens provide the warning signal (see Fig. 8). These figures are approximately the same as those in the 1954 national study (Ref 2, p 87); i.e., in cities over 50,000, only 27 percent could identify at least one signal.

The actual coverage of the siren system has not been well determined. Although the Washington metropolitan area will have one of the best warning systems in the nation when installation of approximately 230 sirens is completed in 1960, factors that affect audibility are not well enough defined to permit exact computation of the coverage. To furnish some information on this aspect of preparedness the respondents were asked whether they could hear the air-raid warning sirens when they were in the house with the windows closed. Sixty-five percent indicated they could. Those living in the suburbs and D.C. indicated with equal frequency they could hear the sirens; there was no difference in audibility of sirens. The percentage who said they thought they could hear the sirens at home when asleep dropped to about 50 percent. This did not vary with area of residence or age. Of those who work, about 90 percent indicated they could hear the warning sirens at their place of work. These figures are probably high, since the respondents evidenced inconsistency when asked to identify the signals. The similarity and frequency of fire, police, and ambulance sirens probably contribute to a belief that the sirens can be heard.

Under current civil defense plans certain actions are recommended when the air-raid siren is sounded. If the ALERT signal is sounded one is directed to tune the radio to CONELRAD stations* at 640 and 1240 KC

^{*}CONELRAD, meaning control of electronic radiation, has been initiated to eliminate navigational assistance to enemy bombers afforded by normal radio broadcasts. At the time of the warning, normal broadcasts will go off the air and after a few minutes civil defense information will be broadcast over two wave lengths only, 640 and 1240 KC.

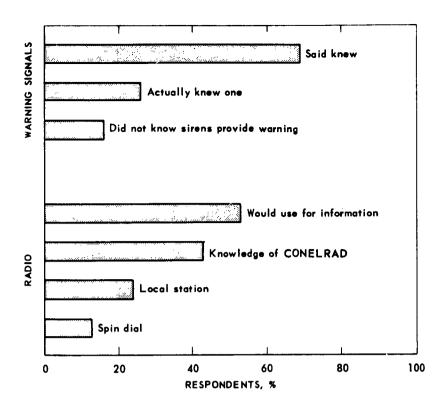


Fig. 8—Knowledge of Warning Signals and CONELRAD

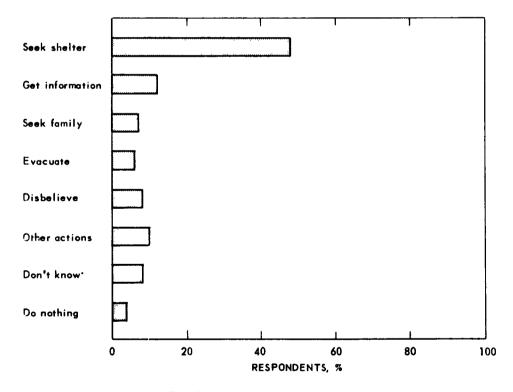


Fig. 9—Action if Warning Given

and "take action as directed by your local government." If the TAKE COVER signal is given either after the ALERT or as the first signal, e.g., as for a missile attack, one is to "take cover immediately in the best available shelter" (Ref II, p 16). About one-half of the Washington-area respondents said their first action would be that of taking shelter if the air-raid warning sounded when they were at home (see Fig. 9). Others indicated they would not believe it was a real warning or would do nothing. A very few gave evacuation of the city as a course of action. Since evacuation has been perhaps the most publicized course of action by civil defense authorities (some maps have been distributed indicating evacuation routes), it is somewhat surprising to find that so few have either heard of this or would accept it as a course of action. The general tendency of about two-thirds of the population appears to be to take cover or to sit tight. There is no apparent relation between a course of action and age, education, or area of residence.

It is significant to note that only I person out of 10 indicated he would try to get more information when the warning sounded. When this respondent as well as those who had not volunteered this course of action were asked specifically where they would get more information when the warning sounded, about one-half mentioned the radio. Two out of ten said they would use the telephone, an action the public is specifically warned against taking. Use of the telephone is mentioned more frequently by the older residents and the less educated. The radio, on the other hand, is given as the source of information by the younger and the more educated. This same relation has been reported in the nation. Three out of five suburban residents named the radio as the source of information at the time of an attack.

Although radio stations in the Washington area periodically test CONELRAD by going off the air for approximately a minute (after having made an announcement to this effect) and the majority of new radio sets that are sold have the two CONELRAD stations, 640 and 1240 KC, marked, only 43 percent of those interviewed showed a knowledge of CONELRAD. When asked where they would tune in the radio for information, about 4 out of 10 persons said they would spin the dial or tune to a local radio station; 2 out of 10 professed complete ignorance (see Fig. 8). Knowledge of CONELRAD is held most frequently by those under 45 and the more educated; those who know of some protective measure frequently have a knowledge of CONELRAD.

WILLINGNESS TO TAKE PROTECTIVE MEASURES

The Washington-area public is generally unprepared for the effects of an atomic attack. Although a high percentage believe that Washington would be a target and that the enemy would succeed in delivering a weapon on the city should there be a war, only a few know what the warning signals are, less than one-half are familiar with CONELRAD, and essentially noone has prepared a shelter area or made other preparations other than the normal stocking of food.

It is entirely possible that the public is willing to expend time, energy, and money to provide protection if there is proper emphasis, sufficient information, and publicity about the means of preparation for protection against a nuclear attack. Such things as shelter construction, home warning devices, radiation detection instruments, and courses in civil defense are probably essential aspects of a well-prepared population. The Washington residents were asked whether they were willing to support programs that would require an effort on their part. An analysis of the responses indicated not only how willing the public is but also characteristics of those who are willing. The latter provide clues as to the possible content and nature of an information and education program that would be designed to increase the desire to take protective measures. Although it is possible that the actual number who would build shelters, purchase warning or radiation devices, or support programs might drop below the number of those who state a willingness in this survey, it is also highly probable that once some residents had indicated their seriousness of purpose by actually taking the measure, e.g., building a shelter, a community spirit would prevail that would result in some who had previously been unwilling actually taking the measure too.

Home Warning Device

A home warning device called NEAR, standing for National Emergency Alarm Repeater, is under development by the Office of Civil and Defense Mobilization. The instrument can be easily installed by plugging it into any electric outlet in the home. It is estimated that each NEAR device will cost approximately \$5, plus a 50-cent charge for installation at the power station. Six out of ten persons indicated a desire to have such a device in their home if it were free; this number dropped to four out of ten if a \$5 charge per household were made (see Fig. 10). The

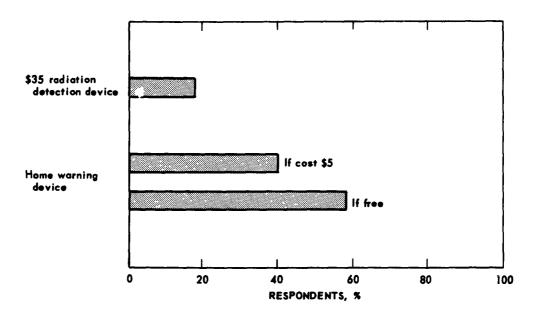


Fig. 10—Willingness to Buy Protection Devices

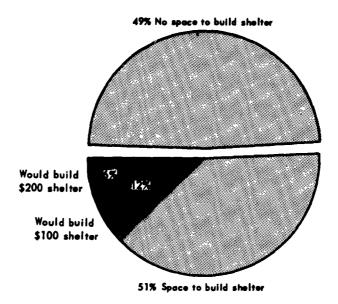


Fig. 11—Family Shelter Construction

number willing to have the device free or at a \$5 charge is higher among the younger group. There is no relation to income level. The less educated and those who live in D. C. tend to be more willing to have the device if it is free. The number who are willing to have a home warning device is highest among those who see their chances of survival as fifty-fifty or less. Those who felt they knew what the warning signal is tended to be more willing to buy the device.

Radiation Detection Device

Following an attack it will be essential that survivors keep an accurate account of the amount of radiation to which they are exposed. It has been estimated that an accurate radiation measurement device would cost approximately \$35. Such an instrument is necessary equipment for each home shelter. Only about 2 out of 10 respondents expressed a willingness to purchase such a device (see Fig. 10). Again it is the younger group who are more willing; those who live in D. C. also tend to be more willing. The number reporting a willingness to purchase a radiation detection device was higher among those also willing to have or purchase a home warning device.

Shelters

Unless strategic warning, 2 or 3 days' warning, is available in the missile age, the maximum time between detection of the enemy-launched missile and arrival on the city is 30 min, probably 15 min, and possibly 0 min. The only tactic under these conditions is to take shelter. Even in the event of a bomber attack, a 2- or 3-hr warning time is not sufficient to evacuate Washington. The latest "Handbook for Emergencies," purportedly distributed to each household, lists as item one under family preparedness "build an underground shelter"(Ref 11, p3) Quite appropriately, increased emphasis is being placed on the importance of building family shelters.

An examination was made of the potential protection which would be afforded by shelters capable of withstanding overpressures of between 10 and 100 pounds per square inch (psi) from representative missile and bomber attacks on Washington. The results indicated that if the Washington-area population were in shelters capable of withstanding overpressures of approximately 10 psi, they would have essentially their

highest chance of surviving an ICBM attack. Naturally, for high-yield weapons, accurately delivered, the percentage of the population in 10 psi shelters who survive is not large but is essentially the best obtainable when construction costs are included in the considerations. The results indicate that it would be of value to have shelters capable of withstanding at least 10 psi for protection against ICBMs; shelters primarily designed for protection against fallout can be built with a 10-psi protection.

Of the sample interviewed in the Washington area, 46 percent live in apartments, rooms, or rented houses. This corresponds to a recent survey that reports that 46.5 percent of Washington-area families rent the homes in which they live. Only approximately one-half of the respondents live in homes they own that have building space. The number owning homes is highest among those over 30, the higher-income levels, and suburban residents.

None of the respondents who own homes have built home shelters; for that matter hardly anyone has built a shelter in Washington. The most frequent reasons given for not having built a shelter are (a) lack of enemy threat, (b) insufficient money, or (c) too great an enemy threat (a shelter would be useless). The younger, those with less education, those with lower incomes, and those who live in D. C. proper mentioned lack of money most frequently. The older, the more educated, and those with higher incomes gave the threat as the reason for not building a shelter.

Many shelter designs have been developed by OCDM and its contractors. Recently in Montgomery County, Md., a design for a do-it-yourself family shelter was proposed, which would cost approximately \$100 to build and equip. This underground shelter uses inexpensive materials; it can accommodate a family of from four to six people. The family is protected against fallout and blast overpressures of about 10 psi. The cost of the shelter is increased to approximately \$200 if hired labor is used for the construction.

Those respondents who have space for building were asked whether they would build the \$100 do-it-yourself shelter. One-fourth expressed a willingness to build the \$100 shelter; this dropped to 12 percent for a cost of \$200 (using hired labor). (See Fig. 11) Those under 60 and those with higher education showed more willingness to build the shelter

at either cost. Those with space who lived in the suburbs appeared no more willing than residents of D. C. proper. There is little relation to income; those in the \$4000 to \$6000 yearly income bracket said they would build either shelter as often as did those in the \$8000-plus bracket and more often than those in the \$6000 to \$8000 bracket. Those who see their chance of surviving an attack as fifty-fifty or better are more often willing to build a shelter than those who do not see a fair chance of survival. The number reporting willingness to build a shelter is highest among those who have heard of protective measures and those who would seek shelter when the area was attacked. Furthermore those who were willing to build a \$100 shelter were also more often willing to buy a home warning device or a radiation detection device or build a \$200 shelter.

An alternative action to home shelters is a federally financed community shelter system. Such a system might be necessary to supplement the family shelters built by home owners in order to protect that part (about one-half) of the population that does not own homes as well as the working population during the day. The Washington residents were asked whether or not they favored a proposed program of federally financed undergrou. I shelters in all cities if it meant an increase for several years in individual income taxes of from \$10 to \$90 depending on family income. Seven out of ten approved such a proposal. Favorable replies were highest among the younger, those who were in lower-income brackets, and residents of D. C. proper. Those who were willing to take protective measures — buy a home warning device, buy a radiation detection device, or build a \$100 home shelter — more frequently favored a federal shelter program.

Civil Defense Courses

In addition to general information disseminated to the public through mass media, basic civil defense courses are offered in the community. In Montgomery County a 20-hr civil defense course was offered twice during the school year 1957-1958 under the county adult-education program. Three hundred people were graduated from the course. In the survey over one-half (54 percent) of the respondents said they would be willing to take a 10-hr basic civil defense course. The younger and more educated more frequently expressed a willingness to take such a course. Those who saw better than a 50 percent chance of war in the next 2 years appeared more willing to participate in a course. On the other hand, the less a person

believes that Washington will be attacked or the better he feels his chances are of surviving such an attack, the more willing he is to take a civil defense course.

In 1956 a Gallup poll indicated that 64 percent of the nation approved of a plan "to require every man and woman to spend an average of one hour a week in civil defense work." ¹⁴ The same question posed in the Washington area elicited approval by 65 percent, essentially the same proportion of the population. Those with less education, those with lower incomes, and residents of D. C. more often approved of the proposal. Furthermore, approval was highest among those who saw a better chance of war in 2 years and those who felt survival chances were less than 50 percent.

As previously mentioned, about one-half of the Washington population has taken a first-aid course; most people took the course 5 years or more ago, and few know the treatment for burns. The respondents were asked whether they would take a refresher or an initial first-aid course. Sixty-three percent said they would; 33 percent said they would not (see Fig. 12). Those who would take a course were the younger and the more educated. Those who had taken a first-aid course were generally more willing to take a refresher course than those who had never taken a course. Furthermore those who supported compulsory civil defense work or would take a 10-hr basic civil defense course were more frequently willing to take a first-aid course.

MEDIA FOR CIVIL DEFENSE INFORMATION

In the Washington area, civil defense information has been distributed through schools, places of work, and communities. One-hundred thousand copies of the pamphlet entitled "Your Survival," containing an evacuation map and other civil defense instructions, have been distributed in Montgomery County. Over 2000 people receive a county civil defense newsletter. In the fall of 1958 the OCDM publication "Handbook for Emergencies" was distributed throughout the Washington area. Besides the courses previously mentioned, seminars have been held on civil defense in industry. News of civil defense activities appears in local newspapers (maps of evacuation routes have been published). Training has been given in federal and local government offices and in some department stores and banks. Civil defense officials have spoken before parent-teacher, civic, and other interested groups.

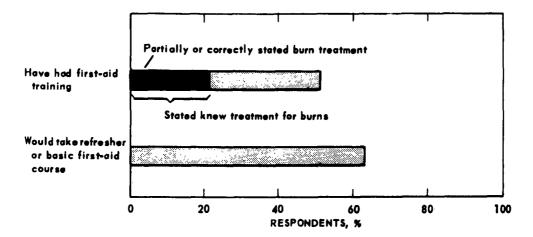


Fig. 12—Experience with and Attitude toward First-Aid Courses

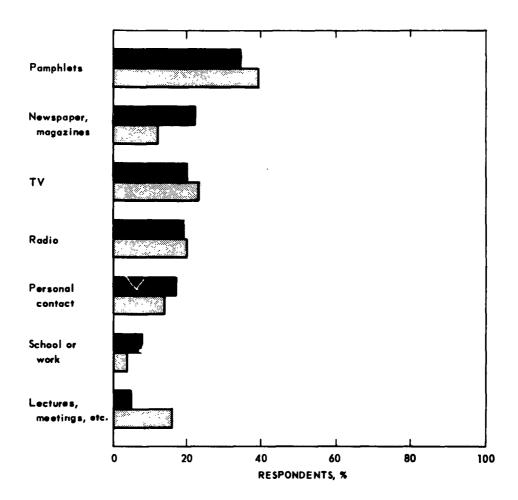


Fig. 13—Media for Civil Defense Information

Media of information received
Best media for information

How effective has this effort been to reach the public? What media appear to be the best? The respondents were asked to recall the media through which they had received civil defense information. Pamphlets, newspapers and/or magazines, TV, radio, and personal contact were the most frequently mentioned items, in the order given (see Fig. 13). The younger, those with more education, those in the higher-income brackets, and residents of the suburbs mentioned pamphlets most frequently as the source of the civil defense information they had received. The less educated, older, and lower-income groups tended more frequently either to be unable to recall any media or to say they had received no information. Radio and TV were mentioned with about equal frequency among all groups. The people who had received their information through pamphlets tended to be more informed about protective measures, to feel that they knew the warning signals, and to realize that the radio (specifically CONELRAD) should be used for information at the time of an attack.

The dissemination of information to the public has been largely through pamphlets. Pamphlet effectiveness is difficult to establish; it is clear that those who have received information through pamphlets are generally more familiar with protective measures, although they have been no more stimulated to take action than other groups. As mass media, radio, TV, and newspapers are possibly more effective, i.e., they reach more of the public. They were reported in the 1954 national study² as the most frequent sources of civil defense information. Increased emphasis in those areas might provide a big payoff in effecting an informed public. Pamphlets are necessary, though, to provide a permanent reference for proper actions.

The respondents felt that the best ways for civil defense authorities to get information to them were pamphlets, TV, radio, courses, personal contact, and newspapers, in the order given (see Fig. 13). Again, pamphlets were favored more often by the younger and the more educated. There was fairly general agreement among all groups that TV and radio were good media. In general the respondent named as the best medium the same medium that he had given as his past source of information, i.e., those who had received information from pamphlets more frequently listed this as the best medium. It is certainly not clear whether they felt the medium they named was the best medium or simply the most familiar source. It is clear, though, that radio, TV, newspapers, and pamphlets are favored by the public and further that a fair proportion, perhaps one-fourth, would be willing to gain information through personal contact.

At least two-thirds would like additional information on civil defense and nuclear warfare. These are again the younger and the more educated. Three-fourths of those who wanted additional information did not name any specific areas but rather said they would like general information on civil defense and measures of self-protection. A few mentioned they would like to know about the location and use of shelters and the problem of fallout. It is apparent that the desire for information is fairly general and that an increased effort through media other than pamphlets would be received with favor by the public.

A reference book has been suggested as a good source of information for families. Such a book could contain information about probable kinds of enemy attack on Washington, defenses against such attacks, and the ways in which the community and the individual could increase chances of survival. It has been estimated that the book would cost approximately \$2. Less than one-half of those questioned were willing to purchase such a book. The general reaction was one of believing that sufficient information was available free and should be available free. The younger were most frequently willing to purchase the book. There was no relation to income, although those who were willing to buy a \$5 home warning device were more frequently willing to purchase the book. Furthermore, those who would purchase the book generally received civil defense information in the past from pamphlets.

EVALUATION OF CIVIL DEFENSE

The putlic generally supports the purpose and/or organization of civil defense. Less than one-fifth commented unfavorably on civil defense and these were more often critical of the organization rather than the purpose of civil defense (see Fig. 14). About one-half felt that the civil defense program should be accelerated. The more likely war seemed in the next 2 years to the individual the more often he favored civil defense. Those who saw their chances of survival as 50 percent or better more often favored civil defense. The younger and the more educated were more favorably disposed toward civil defense. Favorable comments were highest among those who had heard of protective measures, those who favored a federally financed shelter system, those who believed in a compulsory 1 hr per week of civil defense work, or those who were willing to take a 10-hr basic civil defense course.

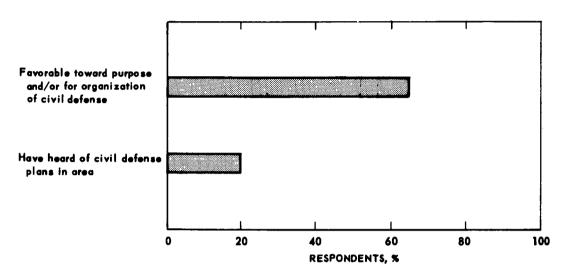


Fig. 14—Evaluation of Civil Defense

Knowledge of activities of local civil defense offices is generally lacking (Fig. 14). Only one-fifth said they had read or heard of anything that the city or county civil defense officials were doing. This correspends to the figure found in the 1954 nationwide survey (Ref 2, p 93). These in the Washington area who had heard of some local activity were more often in favor of civil defense. The activities more frequently mentioned were evacuation of officials, shelter plans, holding of meetings or courses, and general comments on what civil defense will do at the time of an attack. Four out of ten who said they had heard of local actions could not name any of these actions, or made vague, inappropriate statements. Residents of D. C. proper tended to have heard about the D. C. civil defense activities more often than suburban residents. The activities more frequently mentioned by D. C. residents were evacuation of officials and shelter plans; most frequently mentioned by suburban residents were the holding of meetings and courses. The younger and more educated tended to remember some activity of civil defense more frequently. Those who felt they had a 50 percent or better chance of survival were more familiar with civil defense activity in the area. Finally, those more knowledgeable on fallout, protective measures, and CONELRAD were more familiar with local civil defense activities.

STATUS OF PUBLIC KNOWLEDGE AND PREPARATION

The public's estimate of the threat of war and of its chance of surviving a nuclear attack affects the desire to learn about protective measures and the initiative to take those measures necessary for survival. Leadership provided by the government has a significant effect on actions, e.g., policies toward shelters, organization and support of civil defense, and emphasis on informing and educating the public.

This survey shows that the Washington-area population does not perceive much threat of another war, i.e., only one out of ten sees better than an even chance of war occurring, few see any chance of it in the next 20 years. They do feel, however, that should war come, Washington would be a target and the enemy would succeed in dropping a nuclear bomb on Washington.

Even though the public is generally uneducated about effects of nuclear weapons, they do not underestimate the destructive power of an H-bomb. The chance of surviving an attack is seen as poor. The few residents who

feel that war is likely in the near future, consider Washington a target and feel their chance of survival is poor are generally more knowledgeable on bomb effects.

Essentially no measures of preparation have been taken by the public. This is undoubtedly due in part to the fact that the public is generally uneducated on what they should do, only three-fourths could name any preparation measure; few could name any measures other than stocking food. Especially poor is the public's knowledge of warning signals and CONELRAD.

There is no doubt that the Washington-area public is unprepared for a nuclear attack. They do however express a willingness to take certain actions to increase their chances of survival, i.e., about half would be willing to have a home warning device, a fifth would purchase a radiation detection device, of those who own their homes one fourth would build a \$100 do-it-yourself shelter. There was general approval of federally financed shelters and civil defense courses.

While approving of the purpose of civil defense, the public professes to know little about the activity of local civil defense organizations. They would like to have more information. The favored media for information are those through which they have received information in the past—pamphlets, the newspaper, TV_a and radio.

The results of the survey indicate that the public would be receptive to an increased education program. It is postulated that once a program of family shelter construction got underway the proportion of the population who would build structures would increase over that reported here. With a move in this direction, other measures, e.g., home warning and radiation detection devices, would be acquired by a larger percentage. An increased effort by civil defense organizations based on some of the factors outlined in this report would undoubtedly result in a better prepared public, one which would in turn suffer fewer casualties in the event of a nuclear attack.

Appendix A

SURVEY QUESTIONNAIRE AND TABULATED RESPONSES

| URVE | EY QUESTIONNAIRE | 51 |
|-------|---|-------|
| rabli | ES | |
| A1. | Imminence of War Related to Likelihood of War | 58 |
| | Imminence of War Related to Age and to Education | 58 |
| | Likelihood of War in 2 Years | 59 |
| | Likelihood of War in 2 Years Related to Age, Education, and Area of Residence | 59 |
| | Likelihood of Washington Being Attacked | 60 |
| | Likelihood of Washington Being Attacked Related to Age, Education, and Area of | • |
| | Residence | 60 |
| A7. | Likelihood of Bomb on Washington | 60 |
| | Likelihood of Bomb on Washington Related to Age, Education, and Area of Residence | 61 |
| | Chance of Survival | 61 |
| | Chance of Survival Related to Age, Education, and Area of Residence | 61 |
| | Estimate of H-Bomb Mortality Radius | 62 |
| | Estimate of H-Bomb Mortality Radius Related to Age, Education, and Area of | |
| | Residence | 62 |
| A13. | Knowledge of Bomb Effects | 63 |
| | Knowledge of Fallout | 63 |
| | Knowledge of Causes of Death Related to Age and to Education | 64 |
| | Knowledge of Fallout Related to Age and to Education | 64 |
| | Estimate of H-Bomb Mortality Radius Related to Knowledge of Bomb Effects | 65 |
| | Chance of War in 2 Years Related to Knowledge of Causes of Death | 65 |
| | Likelihood of Washington Being Attacked Related to Knowledge of Causes of Death | 66 |
| | Likelihood of Bomb on Washington Related to Knowledge of Causes of Death | 66 |
| | Chance of Survival Related to Knowledge of Causes of Death | 67 |
| | Knowledge of Fallout Related to Knowledge of Causes of Death | 67 |
| | Knowledge of Fallout Lethality | 68 |
| | Knowledge of Preparation Measures | 68 |
| | Knowledge of Preparation Measures Related to Age, Education, Income, and Area | |
| | of Residence | 69 |
| A26. | Threat of War Related to Knowledge of Preparation Measures | 69 |
| | Knowledge of Specific Preparation Measures | 70 |
| | Knowledge of Shelter Preparation Measures Related to Age, Education, Income, and | • • • |
| | Area of Residence | 70 |
| A29. | Preparation Measures Taken | 71 |
| | Preparation Measures Taken Related to Age, Education, Income, and Area of | |
| | Residence | 71 |
| A 31 | Battery-Operated Radio | 71 |
| | First-Aid Training | 72 |
| | Knowledge of Treatment for Serious Burns | 72 |
| | Reasons Protective Measures Have Not Been Taken | 73 |
| | Reasons for Lack of Action Related to Threat of War | 73 |
| | Knowledge of Warning Signals | 74 |

| | Knowledge of Warning Signals Related to Age, Education, and Area of Residence Identification of Warning Signal | 74 74 |
|-------|---|----------|
| | | 75 |
| | Audibility of Sirens at Home Audibility of Sirens Related to Area of Residence and to Age | 75 |
| | Audibility of Sirens When Asleep Related to Area of Residence and to Age | 75 |
| | | 76 |
| | Audibility of Sirens at Work | 76 |
| | Protective Action When Sirens Sound | 77 |
| | Protective Action When Sirens Sound Related to Age, Education, and Area of Residence Information Source When Sirens Sound | 77 |
| | | |
| A40. | Information Source When Sirens Sound Related to Age, Education, and Area of Residence | 78 |
| A 47 | Knowledge of CONELRAD | 78 |
| | Knowledge of CONELRAD Related to Age and to Education | 79 |
| | Knowledge of CONELRAD Related to Knowledge of Protective Measures | 79 |
| | • | 79 |
| | Willingness to Have Home Warning Device Willingness to Buy \$5 Home Warning Device | 80 |
| | Willingness to Have Home Warning Device Related to Age, Education, Income, and | 00 |
| AJZ. | Area of Residence | 80 |
| A 5 2 | Willingness to Buy \$5 Home Warning Device Related to Age, Education, Income, and | 00 |
| AUU. | Area of Residence | 80 |
| A 54 | Willingness to Have Home Warning Device Related to Chance of Survival | 81 |
| | Willingness to Buy \$5 Home Warning Device Related to Chance of Survival | 81 |
| | Willingness to Buy \$5 Home Warning Device Related to Expressed Knowledge of | 01 |
| 2100. | Warning Signal | 81 |
| A57 | Willingness to Buy \$35 Radiation Detection Device | 82 |
| | Willingness to Buy \$35 Radiation Detection Device Related to Age, Education, Income, | - |
| 1100. | and Area of Residence | 82 |
| A59. | Willingness to Buy \$35 Radiation Detection Device Related to Willingness to Buy \$2 | |
| 1100. | Civil Defense Book, Have Home Warning Device, and Buy \$5 Home Warning Device | 82 |
| A60. | Construction of Home Shelters | 83 |
| | Area to Construct Home Shelter Related to Age, Education, Income, and Area of | |
| • | Residence | 83 |
| A62. | Reasons for Not Building Home Shelter | 84 |
| | Reasons Home Owners Have Not Built Home Shelters Related to Age, Education, | |
| | Income, and Area of Residence | 84 |
| A64. | Willingness to Build \$100 Family Shelter | 85 |
| | Willingness to Build \$200 Family Shelter | 85 |
| | Willingness to Build \$100 Home Shelter Related to Age, Education, Income, and Area | |
| | of Residence | 86 |
| A67. | Willingness to Build \$200 Home Shelter Related to Age, Education, Income, and Area | |
| | of Residence | 86 |
| A68. | Willingness to Build \$100 Home Shelter Related to Chance of Survival | 86 |
| A69. | Willingness to Build \$100 Home Shelter Related to Knowledge of Protective Measures | 87 |
| | Willingness to Build \$100 Home Shelter Related to Stated Action When Warning Signal | |
| | Sounds | 87 |
| A71. | Willingness to Build \$100 Home Shelter Related to Willingness to Buy \$2 Civil Defense | |
| | Book, \$5 Home Warning Device, \$35 Radiation Detection Device, and \$200 Home Shelter | 87 |
| | Support of Federal Shelter System | 88 |
| A73. | Support of Federal Shelter System Related to Age, Education, Income, and Area of | |
| | Residence | 88 |
| A74. | Support of Federal Shelter System Related to Willingness to Buy \$2 Civil Defense | |
| | Book, Have Home Warning Device, Buy \$35 Radiation Detection Device, and Build | |
| | \$100 Home Shelter | 89 |

| A75. | Willingness to Take 10-Hr Civil Defense Course | 88 |
|-------|---|-----------|
| A76. | Willingness to Take 10- Hr Civil Defense Course Related to Age, Education, Income, | |
| | and Area of Residence | 89 |
| A77. | Willingness to Take 10-Hr Civil Defense Course Related to Threat of War | 90 |
| A78. | Approval of Compulsory Civil Defense Work | 90 |
| A79. | Approval of Compulsory Civil Defense Work Related to Age, Education, Income, and | |
| | Area of Residence | 90 |
| A80. | Support of Compulsory Civil Defense Work Hr per Week Related to Threat of War | 91 |
| A81. | Willingness to Take First-Aid Course | 91 |
| A82. | Willingness to Take First-Aid Course Related to Age, Education, Income, and Area of | |
| | Residence | 91 |
| A83. | Experience with First-Aid Course Related to Willingness to Again Take First-Aid | |
| | Course | 92 |
| A84. | Willingness to Take 10-Hr Civil Defense Course Related to Willingness to Take | |
| | First-Aid Course | 92 |
| A85. | Support of Compulsory Civil Defense Work 1 Hr per Week Related to Knowledge of | |
| | Local Civil Defense Activities and to Willingness to Take First-Aid Course | 92 |
| | Media by Which Civil Defense Information Has Been Received | 93 |
| A87. | Source of Civil Defense Information Related to Age, Education, Income, and Area of | |
| | Residence | 93 |
| A88. | Source of Civil Defense Information Related to Knowledge of Protective Measures, | |
| | Stated Knowledge of Warning Signals, Knowledge of Radio, and Knowledge of CONELRAD | 94 |
| | Preferred Medium for Civil Defense Information | 94 |
| A90. | Preferred Medium for Civil Defense Information Related to Age, Education, Income, | 95 |
| A C1 | and Area of Residence Professed Medium for Civil Referes Information Related to Medium by Which Civil | 90 |
| ASI. | Preferred Medium for Civil Defense Information Related to Medium by Which Civil Defense Information Has Been Received in Past | 95 |
| A 0.2 | Desire for Civil Defense Information | 96 |
| | Desire for Civil Defense Information Related to Age, Education, Income, and Area of | 30 |
| AUU. | Residence | 96 |
| A 94. | Willingness to Buy \$2 Civil Defense Book | 96 |
| | Willingness to Buy \$2 Civil Defense Book Related to Age, Education, Income, and | |
| | Area of Residence | 97 |
| A96. | Willingness to Buy \$5 Home Warning Device Related to Willingness to Buy \$2 Civil | |
| | Defense Book | 97 |
| A97. | Source of Civil Defense Information Related to Willingness to Buy \$2 Civil Defense | |
| | Book | 97 |
| A98. | Opinion of Civil Defense | 98 |
| A99. | Opinion of Civil Defense Related to Threat of War | 98 |
| | Opinion of Civil Defense Related to Age, Education, Income, and Area of Residence | 98 |
| A101. | Opinion of Civil Defense Related to Knowledge of Protective Measures and Local Civil | |
| | Defense Activities, Support of Federal Shelter Program and Compulsory Civil Defense | |
| | Work 1 Hr per Week, and Willingness to Take 10-Hr Civil Defense Course | 99 |
| | Knowledge of Local Civil Defense Activities | 99 |
| A103. | Knowledge of Local Civil Defense Activities Related to Age, Education, Income, and | |
| | Area of Residence | 100 |
| A104. | Knowledge of Local Civil Defense Activities Related to Age, Education, and Area of | |
| 4 105 | Residence | 100 |
| | Knowledge of Local Civil Defense Activities Related to Threat of War | 101 |
| WIND. | Knowledge of Local Civil Defense Activities Related to Knowledge of Fallout, | 101 |
| | Protective Measures, and CONELRAD | 101 |

SURVEY QUESTIONNAIRE

On the following pages the questions and categories for recording answers used in the survey are

| give | hown. All questions and alternative answers that are capitalized were on a copy of the questions iven to each respondent to aid him in answering the questions. The choices in parentheses were sed to aid the interviewer in interpreting the responses but were not given to the interviewee. IF A WORLD WAR COMES, WHEN DO YOU THINK IT IS LIKELY TO START? (a) 6 months or less (b) 6 months to 1.9 years (c) 2 to 4.9 years | | | | | | |
|------|--|--|--|--|--|--|--|
| 1. | IF A WORLD WAR COMES, WHEN DO YOU THINK IT IS LIKELY TO START? | | | | | | |
| (| a) 6 months or less | | | | | | |
| (| b) 6 months to 1.9 years | | | | | | |
| (| c) 2 to 4.9 years | | | | | | |
| (| d) 5 to 9.9 years | | | | | | |
| (| e) 10 to 19.9 years | | | | | | |
| | (f) 20 years or more | | | | | | |
| (| g) don't know | | | | | | |
| Ò | h) never | | | | | | |

- 2. HOW LIKELY DO YOU THINK IT IS THAT IT WILL HAPPEN WITHIN ____ YEARS?
 - A. ALMOST CERTAIN
 - B. A GOOD CHANCE
 - C. ABOUT FIFTY-FIFTY
 - D. SOME CHANCE
 - E. NO CHANCE
 - (f) no opinion

ţ

- 3. HOW LIKELY DO YOU THINK IT IS THAT WE WILL HAVE A WORLD WAR IN 2 YEARS OR LESS?
 - A. ALMOST CERTAIN
 - B. A GOOD CHANCE
 - C. ABOUT FIFTY-FIFTY
 - D. SOME CHANCE
 - E. NO CHANCE
 - (f) no opinion
- 4. IN CASE OF ANOTHER WORLD WAR, HOW MUCH CHANCE DO YOU THINK THERE IS OF WASHINGTON BEING ATTACKED WITH ATOMIC BOMBS?
 - A. A GOOD CHANCE
 - B. A FAIR CHANCE
 - C. NOT MUCH CHANCE
 - (d) don't know
- 5. IF WASHINGTON WERE ATTACKED THIS WEEK DO YOU THINK THE ENEMY WOULD SUCCEED IN DROPPING AN ATOMIC BOMB ON THE CITY?
 - (a) yes

 - (b) no (c) don't know

- 6. IF AN H-BOMB HIT WASHINGTON TODAY, WITHIN HOW MANY MILES FROM WHERE IT FELL DO YOU THINK ALMOST EVERYBODY WOULD BE KILLED?
 - A. UP TO 2 MILES
 - B. 2 TO 4 MILES
 - C. 5 TO 9 MILES
 - D. 10 TO 20 MILES
 - E. OVER 20 MILES
 - (f) don't know
- 7. WHAT DO YOU FEEL WOULD BE YOUR CHANCE OF SURVIVING AN ATTACK IF YOU WERE AT HOME?
 - A. EXCELLENT CHANCE OF SURVIVAL
 - B. GOOD
 - C. FIFTY-FIFTY
 - D. POOR
 - E. NO CHANCE AT ALL
 - (f) don't know
- 8. WHAT THINGS DO YOU THINK CAUSE MOST OF THE DEATHS IN AN ATOMIC ATTACK?
 - (a) blast
 - (b) radiation and fallout (burns, sickness, etc.)
 - (c) falling debris or flying objects
 - (d) shortages of food, drugs, etc.
 - (e) flash, heat, and fires (burns)
 - (f) panic
 - (g) other write out
 - (h) don't know
- 9. If fallout already mentioned, omit A and ask B
 - A. HAVE YOU EVER HEARD OR READ ANYTHING ABOUT FALLOUT FROM ATOMIC BOMBS?
 - (a) yes
 - (b) no
 - (c) not sure
 - B. HOW MANY OF THE PEOPLE STILL ALIVE AFTER THE BOMB HAS FALLEN DO YOU THINK WILL BE KILLED BY THE FALLOUT?
 - (a) up to 10% (up to 150,000)
 - (b) 11 to 25% (150,000 to 375,000)
 - (c) 26 to 50% (375,000 to 750,000)
 - (d) 51 to 75% (750,000 to 1,125,000)
 - (e) 76 to 100% (1,125,000 to 1,500,000)
 - (f) don't know
- 10. A. DO YOU KNOW WHAT THE WARNING SIGNAL IS WHICH TELLS YOU THAT ENEMY PLANES ARE HEADED FOR WASHINGTON?
 - (a) yes
 - (b) no
 - (c) not sure
 - if (b) or (c) Do you know whether it's bells or whistles or what?
 - B. WHAT IS IT?
 - (a) correctly identified alert, steady blast 3-5 minutes take cover, wailing tone or short blasts for 3 minutes

- (b) incorrectly identified knows of sirens
- (c) doesn't know of sirens

11. CAN YOU HEAR THE AIR RAID WARNING SIRENS:

- A. IN YOUR HOUSE WITH THE WINDOWS CLOSED?
 - (a) yes
 - (b) no
 - (c) don't know
- B. AT WORK?
 - (a) yes
 - (b) no
 - (c) don't know
 - (d) don't work
- 12. DO YOU THINK THE SIRENS WOULD WAKE YOU UP IF AN AIR-RAID WARNING WERE SOUNDED AT NIGHT?
 - (a) yes
 - (b) no
 - (c) don't know
- 13. IF YOU HEARD THE AIR-RAID WARNING SIRENS SOUNDING THIS EVENING WHEN YOU WERE AT HOME, WHAT WOULD YOU DO FIRST?
 - (a) get more information
 - (b) take shelter
 - (c) evacuate, flee
 - (d) seek family
 - (e) other write out
 - (f) don't know
 - (g) wouldn't believe it
 - (h) do nothing
- 14. If in 13 "get more information" was not mentioned:
 - A. If you wished to get more information about what was going on and what to do, how would you get it?
 - (a) telephone
 - (b) radio
 - (c) other write out
 - (d) don't know
 - (e) ask or watch others
 - (f) ask warden or police
 - (g) wouldn't try
 - B. If "get more information" is mentioned in 13:

How would you get more information?

- (a) telephone
- (b) radio
- (c) other write out
- (d) don't know
- (e) ask or watch others
- (f) ask warden or police
- (g) wouldn't try

C. If radio mentioned:

Where would you tune it?

- (a) shows knowledge of CONELRAD (640 and 1240)
- (b) spin dial
- (c) tune in local station
- (d) don't know
- D. If radio not mentioned:

If you tried the radio where would you tune it?

- (a) shows knowledge of CONELRAD
- (b) spin dial
- (c) tune in local station
- (d) don't know
- 15. A. HAVE YOU HEARD OR READ ANYTHING ABOUT WHAT A PERSON OUGHT TO DO NOW FOR HIS OWN SAFETY AND HIS FAMILY'S SAFETY TO PREPARE FOR AN ATOMIC ATTACK?
 - (a) yes
 - (b) no
 - (c) not sure or don't know
 - B. If yes:

WHAT HAVE YOU HEARD OR READ?

- (a) stock house with food, etc.
- (b) build shelter
- (c) get battery radio
- (d) have first-aid kit
- (e) shelter area fixed
- (f) other write out
- (g) don't remember
- (h) get CD information
- (i) blankets, candles, flashlight, gas in car, emergency kit
- (j) know about evacuation
- C. If things mentioned:

HAVE YOU DONE ANY OF THESE THINGS?

(same choices (a) - (j) as 15 B plus (k) none)

D. If no things done:

THERE ARE MANY REASONS WHY A PERSON MAY NOT HAVE DONE ANYTHING. WHAT ARE THE REASONS IN YOUR CASE?

- (a) laziness, complacency
- (b) lack of threat; threat doesn't justify it
- (c) no government plan
- (d) no home space
- (e) other write out
- (f) don't know
- (g) useless threat too great
- E. If portable radio not mentioned:

DO YOU OWN A PORTABLE, BATTERY-OPERATED RADIO?

- (a) yes
- (b) no

- 16. WOULD YOU BUY A BOOK COSTING \$2 WHICH WOULD CONTAIN INFORMATION ABOUT PROBABLE KINDS OF ENEMY ATTACK ON WASHINGTON, OUR DEFENSES AGAINST ATTACK, AND THINGS YOUR COMMUNITY AND YOU YOURSELF CAN DO TO INCREASE YOUR CHANCES OF SURVIVAL?
 - (a) yes
 - (b) no
 - (c) don't know or not sure
- 17. SEVERAL TYPES OF SMALL HOME WARNING DEVICES HAVE BEEN DEVELOPED. IF YOU HAD ONE, IT WOULD WARN YOU WHEN THE ENEMY ATTACK WAS DISCOVERED. WOULD YOU WANT ONE OF THESE?
 - (a) yes
 - (b) no
 - (c) don't know or not sure

WOULD YOU PAY \$5 FOR ONE?

- (a) yes
- (b) no
- (c) don't know or not sure
- 18. IF AN ATOMIC ATTACK CAME, IT WOULD BE IMPORTANT FOR YOU TO BE ABLE TO TELL HOW MUCH RADIATION YOU WERE BEING EXPOSED TO. WOULD YOU BUY AN INSTRUMENT COSTING ABOUT \$35 WHICH WOULD MEASURE RADIATION?
 - (a) yes
 - (b) no
 - (c) don't know or not sure

Do not ask 19 to apartment dwellers, mark 19 A (c)

- 19. A. MANY PEOPLE IN THE WASHINGTON AREA HAVE NOT YET BUILT HOME SHELTERS. IS THIS TRUE IN YOUR CASE?
 - (a) have not
 - (b) have
 - (c) lives in apartment house
 - B. THERE ARE MANY REASONS WHY A PERSON MAY NOT HAVE BUILT A HOME SHELTER. WHAT ARE SOME OF THE REASONS IN YOUR CASE?
 - (a) no threat
 - (b) no money
 - (c) no space
 - (d) laziness, complacency
 - (e) other write out
 - (f) don't know
 - (g) pasement adequate
 - (h) futile, useless, threat too great
 - (i) haven't thought about it

Do not ask 20 and 21 to people who answer "no space" or live in apartments

- 20. A DESIGN FOR AN UNDERGROUND FAMILY SHELTER IS NOW BEING DEVELOPED WHERE THE WHOLE COST OF BUILDING AND SUPPLYING THE SHELTER WOULD BE ABOUT \$100 IF YOU OR SOME MEMBER OF YOUR FAMILY BUILT IT YOURSELF. WOULD YOU BUILD SUCH A SHELTER?
 - (a) yes
 - (b) no
 - (c) don't know

- 21. WOULD YOU BUILD THIS SHELTER IF YOU PAID SOMEONE ELSE TO DO THE LABOR AND IT COST ABOUT \$200?
 - (a) yes
 - (b) no
 - (c) don't know
- 22. IT HAS BEEN PROPOSED THAT THE FEDERAL GOVERNMENT SHOULD BUILD UNDER-GROUND SHELTERS IN ALL CITIES AND OTHER TARGET AREAS IN THE U.S. EACH SHELTER WOULD HOLD UP TO SEVERAL THOUSAND PEOPLE FOR SEVERAL WEEKS. WOULD YOU FAVOR SUCH A SHELTER PROGRAM IF IT MEANT AN INCREASE FOR SEVERAL YEARS IN YOUR FEDERAL TAXES OF ABOUT 10 TO \$90 DEPENDING UPON YOUR INCOME?
 - (a) yes
 - (b) no
 - (c) don't know
- 23. A. HAVE YOU EVER HAD ANY FIRST-AID TRAINING?
 - (a) yes
 - (b) no

If "no" for 23 A go to 23 F

If "ves" for 23A

- B. WHEN WAS THE LAST TIME YOU TOOK FIRST-AID?
 - A. WITHIN ONE YEAR
 - B. WITHIN 5 YEARS
 - C. 5 YEARS OR MORE
 - (d) don't know, can't remember
- C. DO YOU REMEMBER THE TREATMENT FOR SERIOUS BURNS?
 - (a) yes
 - (b) no
 - (c) not sure
- If "yes" for 24 C
- D. WHAT IS IT?
 - (a) correctly stated (4 or more items correct)
 - (b) partly correct (2 or 3 items correct)
 - (c) incorrectly stated (one or none correct or contradictions to actual treatment)

(TREATMENT FOR SERIOUS BURNS - not read to respondents)

- (1) do not use greasy ointment if skin is charred or burned
- (2) do not wash the burn
- (3) apply sterile petroleum or vaseline and a sterile gauze dressing
- (4) apply sterile cloths with baking soda solution for extensive burns
- (5) remove clothing that is not stuck from burned area
- (6) possibly treat for shock or keep body warm
- (7) don't use iodine or cotton
- (8) do not break blisters
- E, WOULD YOU TAKE A 7-10 HR REFRESHER COURSE IN FIRST-AID?
 - (a) yes
 - (b) no
 - (c) don't know
- F. WOULD YOU TAKE A 12-15 HR FIRST-AID COURSE?
- G. WOULD YOU TAKE A 10 HR BASIC CD COURSE?

- 24. FROM WHAT SOURCES DO YOU RECALL HAVING RECEIVED CIVIL DEFENSE INFORMATION?
 - (a) radio
 - (b) TV
 - (c) newspapers, magazines
 - (d) pamphlets
 - (e) personal contact
 - (f) other write out
 - (g) none named, don't know
 - (h) at work, school
 - (i) lectures, movies, exhibits, posters, meetings
- 25. HAVE YOU HEARD OR READ ANYTHING ABOUT WHAT CIVIL DEFENSE OFFICIALS ARE DOING OR PLANNING TO DO IN THIS CITY (COUNTY)?
 - (a) yes
 - (b) no
 - (c) not sure

WHAT HAVE YOU HEARD OR READ? (write out)

- 26. WOULD YOU APPROVE OR DISAPPROVE OF A PLAN TO REQUIRE EVERY MAN AND WOMAN TO SPEND AN AVERAGE OF ONE HOUR A WEEK IN CIVIL DEFENSE WORK?
 - (a) approve
 - (b) disapprove
 - (c) can't decide
- 27. IS THERE ANYTHING ABOUT CIVIL DEFENSE OR ATOMIC WARFARE YOU WOULD LIKE TO KNOW MORE ABOUT?
 - (a) yes; if yes, what?
 - (b) no
- 28. WHAT WOULD BE THE BEST WAY FOR CIVIL DEFENSE AUTHORITIES TO GET INFORMATION TO YOU ABOUT CIVIL DEFENSE?
 - (a) radio
 - (b) TV
 - (c) newspapers, magazines
 - (d) pamphlets and posters
 - (e) personal contact
 - (f) other write out
 - (g) don't know, wants no information
 - (h) courses, meetings, lectures
 - (i) at work, school
- WHAT IS YOUR OPINION OF CIVIL DEFENSE?
 write out

Table Al
IMMINENCE OF WAR RELATED TO LIKELIHOOD OF WAR

Q. How likely do you think it is that it will happen within (the year stated by the respondent a)?

| | Almost | Good | Fifty- | Some | No | No | QNA | Tot | al | | |
|---------------------|----------------|--------|--------|--------|-------------|---------|-----|-----|-----|--|--|
| Imminence of | certain | chance | fifty | chance | chance | opinion | | No. | % | | |
| war - | Respondents, % | | | | | | | | | | |
| Less than 6 months | 23 | 6 | 47 | 12 | | 12 | | 17 | 100 | | |
| 6 months to 2 years | s 16 | 16 | 45 | 20 | _ | 3 | | 31 | 100 | | |
| 2 to 5 years | 4 | 19 | 50 | 27 | | - | | 26 | 100 | | |
| 5 to 10 years | 11 | 7 | 34 | 48 | _ | _ | | 27 | 100 | | |
| 10 to 20 years | 33 | 14 | 29 | 24 | _ | | | 21 | 100 | | |
| Over 20 years | | | | 100 | | | | 3 | 100 | | |
| Never | | | _ | 2 | 79 | 19 | | 42 | 100 | | |
| Don't know | | | | | _ | _ | 100 | 155 | 100 | | |

a Respondent was first asked when he thought the next war would occur.

Table A2
IMMINENCE OF WAR RELATED TO AGE AND TO EDUCATION

| | | Age, y | ears | | Education | | | | | |
|------------------------|----------------|---------------------|------|-----|-----------|-------------|--------------|--|--|--|
| Imminence of war | - 30 | -30 31-45 46-60 61+ | | | | High school | Grade school | | | |
| | Respondents, % | | | | | | | | | |
| 5 years | 20 | 25 | 26 | 17 | 28 | 20 | 22 | | | |
| 5 to 10 years | 12 | 10 | 7 | 2 | 11 | 6 | 6 | | | |
| 10 to 2 0 years | 10 | 7 | 4 | 4 | 8 | 5 | 4 | | | |
| 20+ years | 1 | 2 | 0 | 0 | 1 | 1 | 0 | | | |
| Never | 11 | 8 | 16 | 23 | 13 | 12 | 15 | | | |
| Don't know | 46 | 48 | 47 | 54 | 39 | 56 | 53 | | | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | |

The survey was confined to those 18 years and over; in all instances -30 refers to those 18-30.

QNA - Question not asked to the 48 percent who responded "Don't know" to "Imminence of war" question.

Table A3

LIKELIHOOD OF WAR IN 2 YEARS

(Q. How likely do you think it is that we will have a world war in 2 years or less?)

| Responses | Respondents, % |
|--------------------------|----------------|
| Almost certain | 5 |
| A good chance | 6 |
| About fifty-fifty chance | 19 |
| Some chance | 28 |
| No chance | 30 |
| No opinion | 12 |
| Total | 100 |
| 2000 | |

Table A4

LIKELIHOOD OF WAR IN 2 YEARS RELATED TO AGE, EDUCATION, AND AREA OF RESIDENCE

| Likelihood of | | Age | , years | | E | ducation | Area of residence | | |
|------------------|-----|---------|---------|------|---------|----------------|-------------------|------|---------|
| war in 2 years | -30 | 31 - 45 | 46-60 | 61 + | College | High school | Grade school | D.C. | Suburbs |
| | | | | | | | | | |
| Better than 50% | 7 | 9 | 16 | 12 | 10 | 10 | 14 | 13 | 9 |
| Fifty-fifty | 31 | 21 | 9 | 17 | 15 | 23 | 24 | 24 | 13 |
| Less than 50% | 59 | 58 | 60 | 48 | 66 | 56 | 37 | 50 | 66 |
| No opinion | 3 | 12 | 15 | 23 | 9 | 11 | 2 5 | 13 | 12 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table A5

LIKELIHOOD OF WASHINGTON BEING ATTACKED

(Q. In case of another world war, how much chance do you think there is of Washington being attacked with atomic bombs?)

| Response | Respondents, % |
|-------------|----------------|
| Good chance | 63 |
| Fair chance | 18 |
| Poor chance | 12 |
| Don't know | 7 |
| Total | 100 |

Table A6

LIKELIHOOD OF WASHINGTON BEING ATTACKED RELATED TO AGE, EDUCATION, AND AREA
OF RESIDENCE

| Chances of | | Age, | years | | E | ducation | Area of residence | | | | | | |
|------------------------------|----------------|--------|-------|-----|---------|----------------|-------------------|------|---------|--|--|--|--|
| Washington being attacked | - 30 | 31- 45 | 46-60 | 61+ | College | High school | Grade school | D.C. | Suburbs | | | | |
| | Respondents, % | | | | | | | | | | | | |
| Good | 64 | 67 | 61 | 54 | 71 | 62 | 41 | 57 | 70 | | | | |
| Fair | 22 | 17 | 16 | 19 | 17 | 18 | 23 | 23 | 13 | | | | |
| Poor | 11 | 10 | 14 | 15 | 9 | 12 | 20 | 11 | 13 | | | | |
| Don't know | 3 | 6 | 9 | 12 | 3 | 8 | 16 | 9 | 4 | | | | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | |

Table A7

LIKELIHOOD OF BOMB ON WASHINGTON

(Q. If Washington were attacked this week do you think the enemy would succeed in dropping an atomic bomb on the city?)

| Responses | Respondents, % |
|------------|----------------|
| Yes | 58 |
| No | 24 |
| Don't know | 18 |
| Total | 100 |

Table A8

LIKELIHOOD OF BOMB ON WASHINGTON RELATED TO AGE, EDUCATION, AND AREA

OF RESIDENCE

| Bomb on | | Age, | years | |] | Education | Area of residence | | | | |
|----------------|------|------------|-------|------------|---------|----------------|-------------------|------|---------|--|--|
| Washington | - 30 | 31-45 | 46-60 | 61+ | College | High school | Grade school | D.C. | Suburbs | | |
| Respondents, % | | | | | | | | | | | |
| Yes | 59 | 5 6 | 58 | 63 | 67 | 54 | 45 | 51 | 67 | | |
| No | 29 | 24 | 27 | 8 | 20 | 22 | 37 | 29 | 17 | | |
| Don't know | 12 | 20 | 15 | 2 9 | 13 | 24 | 18 | 20 | 16 | | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |

Table 9
CHANCE OF SURVIVAL

(Q. What do you feel would be your chance of surviving an attack if you were at home?)

| Response | Respondents, % | |
|-------------|----------------|--|
| Excellent | 2 | |
| Good | 10 | |
| Fifty-fifty | 19 | |
| Poor | 36 | |
| None | 26 | |
| Don't know | 7 | |
| Total | 100 | |

Table A10

CHANCE OF SURVIVAL RELATED TO AGE, EDUCATION, AND AREA OF RESIDENCE

| | Age, Years | | | | : | Education | Area of residence | | |
|--------------------|------------|-------|-------|--------|---------|----------------|-------------------|---------------|-----------------|
| Chance of survival | - 30 | 31-45 | 46-60 | 61 + | College | High school | Grade school | D.C. | Suburbs |
| | | | R | espond | ents, % | . | | . | l _ |
| Better than 50% | 11 | 13 | 14 | 4 | 12 | 11 | 12 | 10 | 13 |
| Fifty-fifty | 22 | 18 | 22 | 13 | 20 | 19 | 18 | 19 | 19 |
| Less than 50% | 67 | 65 | 54 | 62 | 64 | 61 | 58 | 65 | 59 |
| Don't know | 0 | 4 | 10 | 21 | 4 | 9 | 12 | 6 | 9 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table All
ESTIMATE OF H-BOMB MORTALITY RADIUS

(Q. If an H-bomb hit Washington today, how many miles from where it fell do you think almost everybody would be killed?)

| Response | Respondents, % |
|----------------|----------------|
| Up to 2 miles | 5 |
| 2 to 4 miles | 15 |
| 5 to 9 miles | 23 |
| 10 to 20 miles | 24 |
| Over 20 miles | 13 |
| Don't know | 20 |
| Total | 100 |

Table A12

ESTIMATE OF H-BOMB MORTALITY RADIUS RELATED TO AGE, EDUCATION, AND AREA OF RESIDENCE

| Estimate of | | Age, | years | | Education | | | Area of residence | |
|---------------------|------|---------|-------|--------|-----------|----------------|-----------------|-------------------|---------|
| mortality radius | - 30 | 31 - 45 | 46-60 | 61+ | College | High school | Grade school | D.C. | Suburbs |
| | | | 4 | Respon | idents, % | · | | | |
| 0 to 4 miles | 16 | 23 | 19 | 23 | 18 | 23 | 18 | 23 | 17 |
| 5 to 9 miles | 27 | 18 | 25 | 23 | 28 | 19 | 19 | 18 | 29 |
| 10 to 20 miles | 24 | 29 | 22 | 17 | 27 | 23 | 18 | 24 | 23 |
| Over 20 miles | 24 | 11 | 14 | 0 | 11 | 15 | 16 | 14 | 13 |
| Don't know | 9 | 19 | 20 | 37 | 16 | 20 | 29 | 21 | 18 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table Al3

KNOWLEDGE OF BOMB EFFECTS

(Q. What things do you think cause most of the deaths in an atomic attack?)

| Respondents, % |
|----------------|
| 39 |
| 22 |
| 12 |
| 11 |
| 5 |
| 8 |
| 20 |
| 117 |
| |

a Total is more than 100 because of multiple responses.

Table Al4
KNOWLEDGE OF FALLOUT

(Q. Have you ever heard or read anything about fallout from atomic bombs?)

| Respondents, % |
|----------------|
| 75 |
| 22 |
| 3 |
| 100 |
| |

Table A15

KNOWLEDGE OF CAUSES OF DEATH RELATED TO AGE AND TO EDUCATION

| | | Ag | e, years | | | Education | | |
|--------------------------------|------------|---------|----------|------|---------|-------------|--------------|--|
| Causes of death | ⊢30 | 31 - 45 | 46-60 | 61 + | College | High school | Grade school | |
| | | | | | | | | |
| Radiation and fallout | 47 | 43 | 38 | 19 | 48 | 39 | 14 | |
| Blast | 12 | 24 | 26 | 29 | 32 | 16 | 14 | |
| Flash, heat, fires | 12 | 8 | 17 | 10 | 18 | 9 | 6 | |
| Panic | 18 | 11 | 9 | 6 | 10 | 14 | 10 | |
| Falling debris, flying objects | 9 | 4 | 4 | 4 | 5 | 5 | 8 | |
| Other | 7 | 8 | 9 | 8 | 3 | 12 | 12 | |
| Don't know | 14 | 19 | 17 | 39 | 16 | 19 | 41 | |
| Total ^a | 119 | 117 | 120 | 115 | 132 | 114 | 105 | |

Total is more than 100 because of multiple responses.

Table Al6

KNOWLEDGE OF FALLOUT RELATED TO AGE AND TO EDUCATION

| | | A | ge, years | | Education | | | | | |
|------------------------------|------|----------------|-----------|-----|-----------|-------------|--------------|--|--|--|
| Knowledge of fallout | - 30 | 3l -45 | 46-60 | 61+ | College | High school | Grade school | | | |
| | | Respondents, % | | | | | | | | |
| Have heard of fallout | 75 | 72 | 82 | 67 | 94 | 70 | 35 | | | |
| Have not heard of fallout | 21 | 24 | 16 | 29 | 4 | 25 | 61 | | | |
| Not sure if heard of fallout | 4 | 4 | 2 | 4 | 2 | 5 | 4 | | | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | |

Table A17
ESTIMATE OF H-BOMB MORTALITY RADIUS RELATED TO KNOWLEDGE OF BOMB
EFFECTS

| | H-bomb mortality radius | | | | | | | |
|-----------------------------------|-------------------------|------------------------|-----|-----------|------------|--|--|--|
| Bomb effects | Up to 5 miles | 5-10 miles 10-20 miles | | 20+ miles | Don't know | | | |
| Respondents, % | | | | | | | | |
| Radiation and Fallout | 3 2 | 46 | 45 | 51 | 21 | | | |
| Blast | 31 | 28 | 23 | S | 14 | | | |
| Flash, heat, fires | 12 | 16 | 14 | 12 | ว ี | | | |
| Panic | 18 | 12 | 10 | 9 | 6 | | | |
| Falling debris, flying objects | 5 | 5 | 4 | 12 | 3 | | | |
| Other | 9 | 8 | 8 | 9 | 8 | | | |
| Don't know | 14 | 13 | 10 | 7 | 54 | | | |
| Total ^a | 121 | 128 | 114 | 109 | 111 | | | |

Total is more than 100 because of multiple responses.

Table A18

CHANCE OF WAR IN 2 YEARS RELATED TO KNOWLEDGE OF CAUSES OF DEATH

| | C | | | | |
|--------------------------------|----------------|-------------|---|------------|--|
| Causes of death | Certain - good | Fifty-fifty | Some - none | Don't know | |
| | R | | No. 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 | | |
| Radiation and fallout | 23 | 44 | 42 | 30 | |
| Blast | 40 | 8 | 26 | 10 | |
| Flash, heat, fires | 14 | 10 | 14 | 5 | |
| Panic | 9 | 15 | 11 | 12 | |
| Falling debris, flying objects | 9 | 5 | 6 | 0 | |
| Other | 11 | 6 | 7 | 10 | |
| Don't know | 14 | 26 | 16 | 40 | |
| Total ^a | 120 | 114 | 122 | 107 | |
| _Total Respondents | (N = 35) | (N = 62) | (N = 185) | (N = 40) | |

Total is more than 13' be muse of multiple responses.

Table A19

LIKELIHOOD OF WASHINGTON BEING ATTACKED RELATED TO KNOWLEDGE OF CAUSES OF DEATH

| | Cha | nce of Washingtor | being attacked | | | | | |
|-------------------------------|------------|--------------------|----------------|----------|--|--|--|--|
| Causes of death | Good | Good Fair Not much | | | | | | |
| | | Resp | ondents, % | | | | | |
| Radiation and fallout | 42 | 34 | 41 | 18 | | | | |
| Blast | 2 5 | 19 | 21 | 9 | | | | |
| Flash, heat, fires | 14 | 12 | 10 | 18 | | | | |
| Panic | 10 | 12 | 13 | 9 | | | | |
| Falling debris, flying object | s 6 | 3 | 3 | 5 | | | | |
| Other | 6 | 10 | 10 | 41 | | | | |
| Don't know | 19 | 19 | 18 | 0 | | | | |
| Total ^a | 122 | 109 | 116 | 100 | | | | |
| Total respondents | (N = 202) | (N = 59) | (N = 39) | (N = 22) | | | | |

Total is more than 100 because of multiple responses.

Table A20
LIKELIHOOD OF BOMB ON WASHINGTON RELATED TO KNOWLEDGE OF CAUSES OF DEATH

| | Would enemy s | ucceed in dropping bo | mu on Washingtor |
|--------------------------------|---------------|-----------------------|------------------|
| Causes of death | Yes | No | Don't know |
| | | Respondents, % | |
| Radiation and fallout | 43 | 36 | 31 |
| Blast | 26 | 17 | 19 |
| Flash, heat, fires | 16 | 7 | 5 |
| Panic | 8 | 22 | 9 |
| Falling debris, flying objects | 4 | 9 | 3 |
| Other | 7 | 11 | 5 |
| Don't know | 18 | 13 | 38 |
| Total ^a | 122 | 115 | 110 |
| Total Respondents | (N = 188) | (N = 76) | (N = 58) |

a Total is more than 100 because of multiple responses.

Table A21

CHANCE OF SURVIVAL RELATED TO KNOWLEDGE OF CAUSES OF DEATH

| | Chance of survival | | | | | | | | |
|--------------------------------|--------------------|--|-----------|----------|--|--|--|--|--|
| Cause of death | Excellent - good | Excellent - good Fifty-fifty Poor - none | | | | | | | |
| | R | espondents, % | | | | | | | |
| Radiation and fallout | 38 | 39 | 42 | 13 | | | | | |
| Blast | 30 | 18 | 24 | 13 | | | | | |
| Flash, heat, fires | 11 | 19 | 11 | 4 | | | | | |
| Panic | 19 | 16 | 9 | 9 | | | | | |
| Falling debris, flying objects | 0 | 11 | 4 | 4 | | | | | |
| Other | 8 | 10 | 7 | 4 | | | | | |
| Don't know | 11 | 10 | 21 | 61 | | | | | |
| Total ^a | 117 | 123 | 118 | 108 | | | | | |
| Total respondents | (N = 37) | (N = 62) | (N = 200) | (N = 23) | | | | | |

a Total is more than 100 because of multiple responses.

Table A22

KNOWLEDGE OF FALLOUT RELATED TO KNOWLEDGE OF CAUSES OF DEATH

| | Have y | ou heard or read a | bout fallout | | | | | |
|--------------------------------|----------------|--------------------|--------------|--|--|--|--|--|
| Course of Joseph | Yes | Yes No Don't kno | | | | | | |
| Causes of death | Respondents, % | | | | | | | |
| Radiation and fallout | 47 | 10 | 36 | | | | | |
| Blast | 27 | 10 | 9 | | | | | |
| Flash, heat, fires | 14 | 4 | 27 | | | | | |
| Panic | 11 | 11 | 27 | | | | | |
| Falling debris, flying objects | 5 | 6 | 0 | | | | | |
| Other | 6 | 13 | 9 | | | | | |
| Don't know | 12 | 49 | 18 | | | | | |
| Total ^a | 122 | 103 | 126 | | | | | |
| Total respondents | (N = 241) | (N = 70) | (N=11) | | | | | |

Total is more than 100 because of multiple responses.

Table A23
KNOWLEDGE OF FALLOUT LETHALITY

(Q. How many people still alive after the bomb has fallen do you think will be killed by the fallout?)

| Response | Respondents, % |
|---|----------------|
| Up to 10% (up to 150,000) | 4 |
| ll to 25°/ ₀ (150,000 to 375,000) | 8 |
| 26 to 50% (375,000 to 750,000) | 16 |
| 51 to 75% (750,000 to 1,125,000) | 9 |
| 76 to 100% (1,125,000 to 1,500,000) | 7 |
| Don't know | 34 |
| Item not asked those who had not heard of fallout | 22 |
| Total | 100 |

Table A24

KNOWLEDGE OF PREPARATION MEASURES

(Q. Have you heard or read anything about what a person ought to do now for his own safety and his family's safety to prepare for an atomic attack?)

| Response | Respondents, % |
|---|----------------|
| Have heard of measures of preparation | 72 |
| Have not heard of measures of preparation | 26 |
| Not sure if have heard of measures of preparation | 2 |
| Total | 100 |

Table A25

KNOWLEDGE OF PREPARATION MEASURES RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| Knowledge of preparation measures | | Age, yea | ars | | Education | | | 1 | ome, dolla | thous irs | Area of residence | | |
|-----------------------------------|------|----------|-------|-----|-----------|----------------|-----------------|-----|---------------|--------------|-------------------|------|---------|
| | - 30 | 31 - 45 | 46-60 | 61+ | College | High school | Grade school | -4 | 4-6 | 6-8 | 8+ | D.C. | Suburbs |
| Respondents, % | | | | | | | | | | | | | |
| Yes | 72 | 71 | 78 | 63 | 83 | 73 | 39 | 50 | 75 | 79 | 91 | 64 | 83 |
| No | 28 | 25 | 20 | 35 | 15 | 25 | 59 | 48 | 24 | 19 | 6 | 35 | 14 |
| Don't know | 0 | 4 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 3 | 1 | 3 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table A26
THREAT OF WAR RELATED TO KNOWLEDGE OF PREPARATION MEASURES

| | Have heard or read of preparation measures | | | | | | | |
|--------------------------------|--|----|------------|---------------|-------------|--|--|--|
| Threat | Yes | No | Don't know | To | tal | | | |
| | Respondents, % | | | | | | | |
| Chance of war in 2 years | | | | · | | | | |
| Certain - good | 77 | 20 | 3 | 35 | 100 | | | |
| Fifty-fifty | 61 | 37 | 2 | 62 | 100 | | | |
| Some - none | 80 | 19 | 1 | 185 | 100 | | | |
| Chance of attack on Washington | | | | | | | | |
| Good | 74 | 23 | 3 | 202 | 100 | | | |
| Fair | 71 | 20 | 9 | 59 | 100 | | | |
| Poor | 67 | 33 | 0 | 3 9 | 100 | | | |
| Bomb on Washington | | | | | | | | |
| Yes | 78 | 21 | 1 | 188 | 100 | | | |
| No | 66 | 30 | 4 | 76 | 100 | | | |
| Chance of survival | | | | | | | | |
| Excellent - good | 76 | 22 | 2 | 37 | 100 | | | |
| Fifty-fifty | 74 | 26 | 0 | 62 | 100 | | | |
| Poor - none | 71 | 27 | 2 | 200 | 100 | | | |

Table A27
KNOWLEDGE OF SPECIFIC PREPARATION
MEASURES

[Q. What have you heard or read (that a person ought to do now for his own safety and his family's safety to prepare for an atomic attack?)]

| Response | Respondents, % |
|-------------------------------------|----------------|
| Stock house with food | 53 |
| Fix shelter area | 18 |
| Have first-aid kit | 16 |
| Build shelter | 11 |
| Blankets, candles, gas in car, etc. | 8 |
| Battery radio | 6 |
| Obtain civil defense information | 3 |
| Know about evacuation | 1 |
| Other | 5 |
| Don't remember | 5 |
| Have not heard or read of measures | 28 |
| Total ^a | 154 |

Total is more than 100 because of multiple responses.

Table A28
KNOWLEDGE OF SHELTER PREPARATION MEASURES RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| Shelter preparation | | Age, | years | | Е | Education | | | | e, thou | Area of residence | | |
|-------------------------|------|-------|-------|-----|---------|-----------|-----------------|----|-----|---------|-------------------|------|---------|
| measures | - 30 | 31-45 | 46-60 | 61+ | College | _ | Grade school | -4 | 4-6 | 6-8 | 8+ | D.C. | Suburbs |
| | | | | | Re | sponden | ts, % | · | | | | | |
| Build shelter | 7 | 8 | 12 | 19 | 12 | 11 | 6 | 8 | 12 | 8 | 14 | 10 | 16 |
| Prepare shelter area | 17 | 20 | 17 | 17 | 23 | 17 | 8 | 12 | 16 | 23 | 24 | 11 | 20 |

Table A29
PREPARATION MEASURES TAKEN

[Q. Have you done any of these things (that a person ought to do now for his own safety and his family's safety to prepare for an atomic attack?)]

| Act | tion | Respondents, % |
|-------|---|----------------|
| На | ve taken preparation measures | 17 |
| Sto | ck food | (11) |
| Bat | ttery radio | (2) |
| Fir | st aid kit | (3) |
| Fix | shelter area | (2) |
| Oth | er | (2) |
| Hav | ve taken no preparation measures | 50 |
| . Hav | ve not heard of or can't remember preparation measure | es 33 |
| | Total | 100 |

Table A30

PREPARATION MEASURES TAKEN RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| | | Age, | years | | Education | | | Income, thous of dollars | | | | Area of residence | | |
|--|------|--------|-------|------|-----------|----------------|-----------------|--------------------------|-----|-----|----|-------------------|---------|--|
| | - 30 | 31 -45 | 46-60 | 6l + | College | High school | Grade school | -4 | 4-6 | 6-8 | 8+ | D.C. | Suburbs | |
| | | · | | | Respo | ondents, | % | | | | | | | |
| Have taken a preparation measure (N = 51) | 14 | 16 | 18 | 12 | 17 | 16 | 9 | 9 | 24 | 13 | 22 | 15 | 19 | |

Table A31
BATTERY-OPERATED RADIO

(Q. Do you own a portable, battery-operated radio?)

| Respons | se Responde | nts, % |
|---------|-------------|--------|
| Yes | 30 | |
| No | 70 | |
| Tota | 100 | |

Table A32 FIRST-AID TRAINING

- (Q. Have you ever had any first-aid training?
 Q. When was the last time you took first aid?)

| Response | Respondents, % | |
|--------------------------------|----------------|--|
| Have had first-aid training | 53 | |
| Within 1 year | (5) | |
| Within 5 years | (10) | |
| 5 years or more | (37) | |
| Don't know | (1) | |
| Have had no first-aid training | 47 | |
| Total | 100 | |

Table A33 KNOWLEDGE OF TREATMENT FOR SERIOUS BURNS

- (Q. Do you know the treatment for serious burns? Q. What is the treatment for serious burns?)

| Response | Respondents, % | |
|---------------------------------|----------------|--|
| Said knew correct treatment | 22 | |
| Stated treatment correctly | (3) | |
| Stated treatment partly correct | (8) | |
| Stated treatment incorrectly | (11) | |
| Do not remember treatment | 28 | |
| Not sure if remember treatment | 3 | |
| Have had no first-aid training | 47 | |
| Total | 100 | |

Table A34
REASONS WHY PROTECTIVE MEASURES HAVE NOT BEEN
TAKEN

[Q. There are many reasons why a person may not have done anything (for his own safety and his family's safety to prepare for an atomic attack,. What are the reasons in your case?)

| Response | Respondents, % |
|---|----------------|
| Have heard of measures but have taken n | one 50 |
| Lack of threat | (19) |
| Useless, threat too great | (9) |
| Lazy, complacent | (9) |
| No home space | (5) |
| No government plan | (1) |
| Other | (11) |
| Don't know | (2) |
| Have taken protective measures | 17 |
| Have not heard of or can't remember promeasures | otective 33 |
| Total | 100 |

Table A35
REASONS FOR LACK OF ACTION RELATED TO THREAT OF WAR

| | | Reaso | ons for lack of action | on | | | |
|----------------------------|-------------|------------|------------------------|------------------|--|--|--|
| Threat | No. | Complacenc | y ; Lack of threat | Threat too great | | | |
| | | | Respondents, % | | | | |
| Chance of war in 2 years | | | | | | | |
| Certain - good | 35 | 9 | 3 | 9 | | | |
| Fifty-fifty | 6 2 | 11 | 15 | 10 | | | |
| Poor - none | 185 | 9 | 26 | 8 | | | |
| No opinion | 40 | 5 | 8 | 15 | | | |
| Chance of attack on Washin | gton | | | | | | |
| Good | 20 2 | 8 | 19 | 13 | | | |
| Fair | 9 | 10 | 19 | 2 | | | |
| Poor | 39 | 8 | 20 | 5 | | | |
| Don't know | 2 2 | 14 | 14 | 5 | | | |
| Bomb on Washington | | | | | | | |
| Yes | 381 | 10 | 21 | 11 | | | |
| No | 76 | 7 | 17 | 3 | | | |
| Don't know | 58 | 7 | 16 | 12 | | | |
| Chance of survival | | | | | | | |
| Excellent - good | 37 | 11 | 22 | 3 | | | |
| Fifty-fifty | 62 | 10 | 23 | 2 | | | |
| Poor - none | 200 | 8 | 17 | 14 | | | |
| Don't know | 23 | 9 | 22 | 4 | | | |

Table A36
KNOWLEDGE OF WARNING SIGNALS

(Q. Do you know what the warning signal is which tells you that enemy planes are headed for Washington?)

| Response | Respondents, % | |
|-----------|----------------|--|
| Yes | 69 | |
| No | 28 | |
| Not sure | 3 | |
| Total | 100 | |

Table A37
KNOWLEDGE OF WARNING SIGNAL RELATED TO AGE, EDUCATION, AND AREA OF RESIDENCE

| Know | | A | ge, years | | Education | | | Area of residence | |
|-------------------|------|------------|-----------|------|--------------|----------------|-----------------|-------------------|---------|
| warning signal | - 30 | 31 ~45 | 46-60 | 61 + | College | High school | Grade school | D.C. | Suburbs |
| | | | | Re | spondents, ' | % | | | |
| Yes | 68 | 70 | 72 | ;9 | 71 | 69 | 59 | 57 | 83 |
| No | 29 | 2 8 | 26 | 31 | 26 | 29 | 33 | 40 | 13 |
| Not sure | 3 | 2 | 2 | 10 | 3 | 2 | 8 | 3 | 4 |
| Total | 100 | _100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table A38
IDENTIFICATION OF WARNING SIGNAL

(Q. What is the warning signal? Do you know whether it is bells or whistles or what?)

| Response | Respondents, % | |
|------------------------|-----------------|--|
| Correctly identified | 26 ^a | |
| Incorrectly identified | 58 | |
| Does not know sirens | 16 | |
| Total | 100 | |

^a Figures have been corrected to account for some differences in scoring procedures by interviewers.

Table A39
AUDIBILITY OF SIRENS AT HOME

(Q1. Can you hear the air-raid warning sirens in your house with the windows closed?

Q 2. Do you think the sirens would wake you up if an air-raid warning were sounded at night?)

| Response | Respondents, % | | | |
|------------|----------------|------------|--|--|
| | Q 1. | Q 2. | | |
| Yes | 65 | 5 2 | | |
| No | 19 | 34 | | |
| Don't know | 16 | 14 | | |
| Total | 100 | 100 | | |

Table A40
AUDIBILITY OF SIRENS RELATED TO AREA OF RESIDENCE AND TO AGE

| Sirens audible | Area of residence | | | | | |
|----------------|-------------------|---------|-----|---------|---------|-----|
| at home with | D.C. | Suburbs | -30 | 31 - 45 | 46 - 60 | 61+ |
| windows closed | Respondents, % | | | | | |
| Yes | 65 | 67 | 67 | 64 | 65 | 64 |
| No | 19 | 17 | 16 | 18 | 21 | 19 |
| Don't know | 16 | 16 | 17 | 18 | 14 | 17 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 |

Table A41

AUDIBILITY OF SIRENS WHEN ASLEEP RELATED TO AREA OF RESIDENCE AND TO AGE

| Sirens audible | Area of | residence | Age, years | | | | |
|----------------|-------------|-----------|------------|---------|-------|-----|--|
| | D.C. | Suburbs | - 30 | 31 - 45 | 46-60 | 61+ | |
| when asleep | Respondents | | | | | | |
| Yes | 65 | 67 | 51 | 50 | 52 | 60 | |
| No | 19 | 17 | 40 | 37 | 35 | 21 | |
| Don't know | 16 | 16 | 9 | 13 | 13 | 19 | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | |

Table A42

AUDIBILITY OF SIRENS AT WORK

(Q. Can you hear the air-raid sirens at work?)

| Response | Respondents, % | |
|------------|----------------|--|
| Yes | 62 | |
| No | 4 | |
| Don't know | 4 | |
| Don't work | 30 | |
| Total | 100 | |

Table A43

PROTECTIVE ACTION WHEN SIRENS SOUND

(Q. If you heard the air-raid warning sirens sounding this evening when you were at home, what would you do first?)

| Response | Respondents, % | |
|----------------------|----------------|--|
| Take shelter | 48 | |
| Get more information | 12 | |
| Don't know | 8 . | |
| Disbelieve it | 8 | |
| Seek family | 7 | |
| Evacuate city | 6 | |
| Do nothing | 4 | |
| Other | 10 | |
| Total ^a | 103 | |

a Total is more than 100 because of multiple responses.

Table A44

PROTECTIVE ACTION WHEN SIRENS SOUND RELATED TO AGE, EDUCATION, AND AREA OF RESIDENCE

| | | Age, y | ears | | E | ducation | Area of residence | | |
|----------------------|------|-----------------|---------|------|----------|----------------|-------------------|------|---------|
| Protective action | - 30 | 31 - 4 5 | 46 - 60 | 61 + | College | High school | Grade school | D.C. | Suburbs |
| | | | | Res | ondents, | % | | | |
| Get more information | 12 | 15 | 8 | 17 | 15 | 9 | 14 | 9 | 16 |
| Seek shelter | 51 | 49 | 48 | 46 | 42 | 5 4 | ól | 46 | 51 |
| Evacuate city | 9 | 6 | 4 | 6 | 11 | 4 | 0 | 4 | 9 |
| Seek family | 9 | 8 | 5 | 2 | 10 | 7 | 0 | 9 | 4 |
| Other | 12 | 11 | . 9 | 8 | 9 | 9 | 16 | 15 | 4 |
| Don't know | 5 | 4 | 9 | 19 | 4 | 9 | 16 | 11 | 4 |
| Disbelieve | 7 | 9 | 12 | Ú | 9 | 9 | 4 | 7 | 10 |
| Do nothing | 0 | 2 | 9 | 8 | 7 | 2 | 2 | 4 | 5 |
| Total ^a | 105 | 104 | 104 | 106 | 107 | 103 | 103 | 105 | 103 |

a Total is more than 100 because of multiple responses.

Table A45
INFORMATION SOURCE WHEN SIRENS SOUND

Q. If you wished to get more information about what was going on and what to do (when the warning sounded), how would you get it?

| Response | Respondents, % |
|----------------------|----------------|
| Radio | 53 |
| Telephone | 22 |
| Ask others | 3 |
| Ask police or warden | 3 |
| Wouldn't try | 3 |
| Other | 5 |
| Don't know | 12 |
| Total ^a | 101 |

Total is more than 100 because of multiple responses.

Table A46

INFORMATION SOURCE WHEN SIRENS SOUND RELATED TO AGE, EDUCATION, AND AREA OF RESIDENCE

| | | Age, | years | |] | Education | Area of residence | | |
|-----------------------|------|---------|-------|-----|-----------|----------------|-------------------|------|---------|
| Source of information | - 30 | 31 – 45 | 46-60 | 61+ | College | High school | Grade school | D.C. | Suburbs |
| | | | | Res | pondents, | % | | | |
| Telephone | 18 | 23 | 23 | 25 | 21 | 21 | 27 | 23 | 21 |
| Radio | 61 | 60 | 49 | 36 | 62 | 53 | 30 | 47 | 60 |
| Other | 7 | 2 | 7 | 6 | 4 | 6 | 6 | 7 | 3 |
| Don't know | 11 | 7 | 14 | 21 | 6 | 12 | 27 | 13 | 11 |
| Ask others | 1 | 3 | 2 | 8 | 3 | 2 | 6 | 4 | 2 |
| Ask police | 3 | 6 | 2 | 0 | 2 | 4 | 4 | 4 | 2 |
| Wouldn't try | 3 | 2 | 3 | 4 | 5 | 2 | 0 | 4 | 1 |
| Total ^a | 104 | 103 | 100 | 100 | 103 | 100 | 100 | 102 | 100 |

Total is more than 100 because of multiple responses.

Table A47

KNOWLEDGE OF CONELRAD

(Q. If you tried the radio where would you tune it?)

| Response | Respondents, % | |
|-------------------------|----------------|--|
| Shows knowledge of CONE | LRAD | |
| (640 and 1240) | 43 | |
| Spin dial | 13 | |
| Tune in local station | 24 | |
| Don't know | 20 | |
| Total | 100 | |

Table A48
KNOWLEDGE OF CONELRAD RELATED TO AGE AND TO EDUCATION

| ······································ | 1 | Age, y | ears | | Education | | | | | |
|--|-------------------|------------|------------|------|-----------|----------------|-----------------|--|--|--|
| Knowledge of CONELRAD | - 30 | 31 - 45 | 46 - 60 | 61 + | College | High school | Grade school | | | |
| | Respondents, $\%$ | | | | | | | | | |
| Knows CONELRAD | 54 | 5 2 | 38 | 17 | 50 | 43 | 24 | | | |
| Would spin dial | 12 | 9 | 15 | 21 | 17 | 11 | 10 | | | |
| Tune local station | 22 | 28 | 2 5 | 16 | 19 | 28 | 27 | | | |
| Don't know | 12 | 11 | 22 | 46 | 14 | 18 | 39 | | | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | |

Table A49
KNOWLEDGE OF CONELRAD RELATED TO KNOWLEDGE OF PROTECTIVE MEASURES

| Knowledge of | 7 | Knowledge of CONELRAD | | | | | | | | |
|------------------------|-----|-----------------------|------------|---------|----|-----|--|--|--|--|
| protective measures | No. | Knows CONELRAD | Don't know | Total % | | | | | | |
| Yes | 232 | 53 | 14 | 20 | 13 | 100 | | | | |
| No | 83 | 16 | 11 | 36 | 37 | 100 | | | | |
| Don't know | 7 | 29 | 29 | 29 | 13 | 100 | | | | |

Table A50
WILLINGNESS TO HAVE HOME WARNING DEVICE

(Q. Several types of small home warning devices have been developed. If you had one, it would warn you when the enemy attack was discovered. Would you want one of these?)

| Response | Respondents, % | |
|------------|----------------|--|
| Yes | 58 | |
| No | 35 | |
| Don't know | 7 | |
| Total | 100 | |

Table A51
WILLINGNESS TO BUY \$5 HOME WARNING DEVICE

[Q. Would you pay \$5 for one (a home warning device)?]

| | | |
|------------|----------------|--|
| Response | Respondents, % | |
| Yes | 40 | |
| No | 50 | |
| Don't know | 10 | |
| Total | 100 | |

Table A52
WILLINGNESS TO HAVE HOME WARNING DEVICE RELATED TO AGE, EDUCATION, INCOME,
AND AREA OF RESIDENCE

| Willing to have home | | Age, yea | ırs | | Ec | lucation | | Income, thous | | | | Area of residence | | |
|--------------------------------|--------------|----------|------------|------|---------|----------------|-----------------|---------------|-----|-----|-----|-------------------|---------|--|
| nave nome warning device | - 3 0 | 31-45 | 46 - 60 | 6l + | College | High school | Grade school | | 4-6 | 6-8 | 8+ | D.C. | Suburbs | |
| | | | | | Resp | ondents, | % | | | | | | | |
| Yes | 67 | 58 | 5 2 | 54 | 51 | 60 | 72 | 61 | 60 | 50 | 57 | 61 | 55 | |
| No | 25 | 36 | 3 9 | 40 | 38 | 36 | 22 | 34 | 33 | 38 | 36 | 34 | 36 | |
| Don't know | 8 | 6 | 9 | 6 | 11 | 4 | 6 | 5 | 7 | 12 | 7 | 5 | 9 | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |

Table A53
WILLINGNESS TO BUY \$5 HOME WARNING DEVICE RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| Willing to buy home | L | Age, | years | | Education | | | Income, thous of dollars | | | Area of residence | | |
|---------------------|------|--------|---------|------|-----------|----------------|-----------------|-----------------------------|-----|-----|-------------------|------------|---------|
| warning device | - 30 | 31 -45 | 46 - 60 | 6l + | College | High school | Grade school | -4 | 4-6 | 6-8 | 8+ | D.C. | Suburbs |
| | | | | | Resp | ondents, | % | | | | | | |
| Yes | 49 | 43 | 39 | 23 | 42 | 40 | 37 | 33 | 47 | 37 | 45 | 38 | 43 |
| No | 38 | 49 | 50 | 67 | 46 | 51 | 5 5 | 59 | 42 | 48 | 45 | 5 2 | 46 |
| Don't know | 13 | 8 | 11 | 10 | 12 | 9 | 8 | 8 | 11 | 15 | 10 | 10 | 11 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table A54
WILLINGNESS TO HAVE HOME WARNING DEVICE RELATED TO CHANCE OF SURVIVAL

| Chance | | Will | | | |
|----------------|-------|----------------------|----|------------|----------|
| of | No. | o. Yes No Don't know | | Don't know | Total, % |
| survival | | | | | |
| Excellent - go | od 37 | 43 | 51 | 6 | 100 |
| Fifty-fifty | 62 | 60 | 34 | · 6 | 100 |
| Poor - none | 200 | 61 | 32 | 77 | 100 |

 ${\bf Table~A55}$ WILLINGNESS TO BUY \$5 HOME WARNING DEVICE RELATED TO CHANCE OF SURVIVAL

| Chance of survival | | Willir | | | |
|--------------------------|-------|-------------------|----------------|------------|----------|
| | No. | Yes No Don't know | | Don't know | Total, % |
| | | | Respondents, 0 | /₀ | |
| Excellent -goo | od 37 | 35 | 62 | 3 | 100 |
| Fifty-fifty | 62 | 44 | 47 | 9 | 100 |
| Poor'-none | 200 | 42 | 48 | 10 | 100 |

Table A56
WILLINGNESS TO BUY \$5 HOME WARNING DEVICE RELATED TO EXPRESSED KNOWLEDGE
OF WARNING SIGNAL

| Thinks knows warning signal | L | Willing | | | | |
|-----------------------------|-----|-------------------|----|------------|----------|--|
| | No. | Yes No Don't know | | Don't know | Total, % | |
| | | | % | | | |
| Yes | 220 | 45 | 45 | 10 | 100 | |
| No | 91 | 31 | 57 | 12 | 100 | |

Table A57
WILLINGNESS TO BUY \$35 RADIATION DETECTION DEVICE

(Q. If an atomic attack came, it would be important for you to be able to tell how much radiation you were being exposed to. Would you buy an instrument costing about \$35 which would measure radiation?)

| Response | Respondents, % | |
|------------|----------------|--|
| Yes | 18 | |
| No | 73 | |
| Don't know | 9 | |
| Total | 100 | |

Table A58

WILLINGNESS TO BUY \$35 RADIATION DETECTION DEVICE RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| Willing to buy | | Age, | years | | Ed | ucation | | | come, dolla | | s | Į. | ea of sidence |
|---------------------|------|--------|-------|------|---------|----------------|-----------------|-----|----------------|-----|-----|------|------------------|
| radiation detection | - 30 | 31 -45 | 46-60 | 61 + | College | High school | Grade school | L. | 4-6 | 6-8 | 8+ | D.C. | Suburbs |
| device | | | | | Resp | ondents, | % | | | | | | |
| Yes | 24 | 19 | 16 | 13 | 18 | 21 | 12 | 18 | 20 | 21 | 15 | 23 | 12 |
| No | 63 | 71 | 77 | 81 | 73 | 70 | 76 | 76 | 70 | 69 | 72 | 70 | 75 |
| Don'i know | v 13 | 10 | 7 | 6 | 9 | 9 | 12 | 6 | 10 | 10 | 13 | 7 | 13 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table A59

WILLINGNESS TO BUY \$35 RADIATION DETECTION DEVICE RELATED TO WILLINGNESS TO BUY \$2 CIVIL DEFENSE BOOK, HAVE HOME WARNING DEVICE, AND BUY \$5 HOME WARNING DEVICE

| | W | illing to buy \$3 | ection device | | | |
|-----------------------------------|-----|-------------------|---------------|------------|----------|--|
| Action | No. | Yes | No | Don't know | Total, % | |
| | | | Respondents, | % | | |
| Willing to buy civil | | | • | | | |
| defense book | | | | | | |
| Yes | 139 | 29 | 60 | 11 | 100 | |
| No | 160 | 9 | 8 5 | 6 | 100 | |
| Willing to have hom | е | | | | | |
| warning device | | | | | | |
| Yes | 187 | 2 5 | 65 | 10 | 100 | |
| No | 112 | 7 | 88 | 5 | 100 | |
| Willing to buy \$5 warning device | | | | | | |
| Yes | 130 | 34 | 53 | 13 | 100 | |
| No | 159 | 6 | 90 | 4 | 100 | |

Table A60

CONSTRUCTION OF HOME SHELTERS

(Q. Many people in Washington area have not yet built home shelters. Is this true in your case?)

| Response | Respondents, % | |
|--|----------------|--|
| Yes | 54 | |
| Lives in apartment house, rents house, | | |
| rooms | 46 | |
| Total | 100 | |

Table A61

AREA TO CONSTRUCT HOME SHELTER RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| Type of residence | | Age, | years | | E | ducation | | | come, f dolla | | s | | rea of esidence |
|---|------|--------|---------|------|---------|----------------|-----------------|-----|------------------|-----|-----|------|--------------------|
| | - 30 | 31 -45 | 46 - 60 | 61 + | College | High school | Grade school | -4 | 4-6 | 6-8 | 8+ | D.C. | Suburbs |
| | | | | | Resp | ondents, | % | | | | | | |
| Owns home | 32 | 60 | 64 | 56 | 56 | 53 | 51 | 41 | 41 | 62 | 70 | 41 | 71 |
| Rents, rooms,or lives in apartment | | 40 | 36 | 44 | 44 | 47 | 4 9 | 59 | 59 | 38 | 30 | 59 | 29 |
| • | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table A62 REASONS FOR NOT BUILDING HOME SHELTER

(Q. There are many reasons why a person may not have built a home shelter. What are some of the reasons in your case?)

| Response | Respondents, % | |
|--------------------------|----------------|--|
| Lack of threat | 23 | |
| Lack of money | 21 | |
| Threat too great | 17 | |
| Basement adequate | 10 | |
| Haven't thought about it | 10 | |
| Laziness | 10 | |
| Lack of space | 5 | |
| Other | 14 | |
| Don't know | 3 | |
| Total ^a | 113 | |
| Total respondents | (N = 174) | |

a Total is more than 100 because of multiple responses.

Table A63 REASONS HOME OWNERS HAVE NOT BUILT HOME SHELTERS RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE^a

| | | Age | years | | E | ducation | | | | e, thou | ıs | | rea of |
|-------------------------|----------|----------|-------|------|------------|----------|----------|------------|--------------|---------|-----|------|---------|
| _ | - 30 | 21 45 | 46 60 | - 61 | 0-11 | **** | <u> </u> | ···· | | llars | | | dence |
| Reasons | - 3U | 91-49 | 46-60 | 01+ | College | High | Grade | | 4-6 | 6-8 | 8+ | D.C. | Suburbs |
| | | <u> </u> | | | L <u>-</u> | school | school | <u> </u> | ! | | | | |
| | <u> </u> | | | | Re | spondent | .s, /o | | | | | | |
| Lack of threat | 17 | 27 | 20 | 26 | 25 | 25 | 8 | 19 | 15 | 28 | 28 | 16 | 28 |
| Lack of money | 29 | 19 | 20 | 19 | 18 | 22 | 27 | 2 9 | 24 | 22 | 12 | 30 | 14 |
| No space | 8 | 6 | 3 | 4 | 1 | 7 | 12 | 5 | 10 | 6 | 2 | 7 | 4 |
| Laziness | 4 | 8 | 15 | 7 | 8 | 12 | 12 | 10 | 12 | 0 | 13 | 8 | 11 |
| Other | 17 | 14 | 12 | 15 | 15 | 16 | 4 | 5 | 19 | 9 | 18 | 15 | 13 |
| Don't know | 0 | 3 | 5 | 4 | 0 | 6 | 8 | 5 | 5 | 0 | 3 | 4 | 3 |
| Adequate basement | 12 | 16 | 7 | 4 | 15 | 9 | 0 | 7 | 5 | 9 | 17 | 8 | 12 |
| Threat too great | 4 | 12 | 24 | 22 | 25 | 7 | 15 | 7 | 12 | 28 | 20 | 14 | 19 |
| Haven't thought of i | t 17 | 9 | 10 | 7 | 8 | 10 | 19 | 19 | 10 | 12 | 3 | 15 | 7 |
| Totalb | 108 | 114 | | 108 | 115 | 114 | 105 | 106 | 112 | 114 | 116 | 117 | 111 |

 $^{^{\}mathbf{a}}$ Total respondents N = 174. bTotal is more than 100 because of multiple responses.

Table A64
WILLINGNESS TO BUILD \$100 FAMILY SHELTER

(Q. A design for an underground family shelter is now being developed where the whole cost of building and supplying the shelter would be about \$100 if you or some member of your family built it yourself. Would you build such a shelter?)

| Response | Total sample, % | Subgroup with space for building,% |
|---------------------------|----------------------|------------------------------------|
| Yes | 12 | 24 |
| No | 30 | 59 |
| Don't know | 9 | 17 |
| Lacks space apt., room | | |
| Total | 100 | 100 |
| Total re | espondents (N = 322) | (N = 165) |

Table A65
WILLINGNESS TO BUILD \$200 FAMILY SHELTER

Q. Would you build this shelter (family shelter) if you paid someone else to do the labor and cost about \$200?

| Response 7 | Cotal sample, % | Subgroup with space for building, % |
|--|-----------------|-------------------------------------|
| Yes | 6 | 12 |
| No | 38 | 74 |
| Don't know | 7 | 14 |
| Lacks space, lives in apt., rents, rooms | 49 | <u></u> |
| Total | 100 | 100 |
| Total respondents | (N = 322) | (N = 165) |

Table A66
WILLINGNESS TO BUILD \$100 HOME SHELTER RELATED TO AGE, EDUCATION, INCOME,
AND AREA OF RESIDENCE

| (N = 165, those who own homes and have spa | ce) |
|--|-----|
|--|-----|

| Would build \$100 shelter | Age, years | | | | Education | | | Income, thous of dollars | | | | Area of residence | |
|------------------------------------|------------|--------|---------|------|-----------|----------------|-----------------|--------------------------|-----|-----|-----|-------------------|---------|
| | - 30 | 31 -45 | 46 - 60 | 61 + | College | High school | Grade school | -4 | 4-6 | 6-8 | 8+ | D.C. | Suburbs |
| | | | | | Res | pondents | , % | | | | | | |
| Yes | 28 | 30 | 25 | 8 | 26 | 25 | 17 | 15 | 27 | 17 | 32 | 24 | 24 |
| No | 36 | 55 | 63 | 77 | 59 | 58 | 61 | 70 | 49 | 66 | 54 | 64 | 55 |
| Don't know | 36 | 15 | 12 | 15 | 15 | 17 | 22 | 15 | 24 | 17 | 14 | 12 | 21 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table A67

WILLINGNESS TO BUILD \$200 HOME SHELTER RELATED TO AGE, EDUCATION, INCOME,
AND AREA OF RESIDENCE

(N = 165, those who own homes and have space)

| Would build \$200 shelter | | Age, | years | | Edi | Education | | | Income, thous of dollars | | | | Area of residence | |
|------------------------------------|------|-------|-------|------|---------|----------------|-----------------|-----|--------------------------|-----|-----|------|-------------------|--|
| | - 30 | 31-45 | 46-60 | 61 + | College | High school | Grade school | -4 | 4-6 | 6-8 | 8+ | D.C. | Suburbs | |
| | | | | | Re | spondent | s, % | | | | | | | |
| Yes | 0 | 17 | 12 | 8 | 12 | 14 | 4 | 3 | 19 | 3 | 17 | 15 | 9 | |
| No | 68 | 73 | 76 | 77 | 74 | 72 | 79 | 82 | 60 | 90 | 70 | 72 | 75 | |
| Don't know | 32 | 10 | 12 | 15 | 14 | 14 | 17 | 15 | 21 | 7 | 13 | 13 | 16 | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |

Table A68
WILLINGNESS TO BUILD \$100 HOME SHELTER RELATED TO CHANCE OF SURVIVAL

| | | Willing | to build \$100 h | ome shelter | |
|------------------|-----|---------|------------------|-------------|----------|
| Chance of | No. | Yes | No | Don't know | Total, % |
| survival | | , % | | | |
| Excellent - good | 21 | 43 | 43 | 14 | 100 |
| Fifty-fifty | 31 | 32 | 49 | 19 | 100 |
| Poor -none | 98 | 20 | 64 | 16 | 100 |

Table A69
WILLINGNESS TO BUILD \$100 HOME SHELTER RELATED TO KNOWLEDGE OF PROTECTIVE MEASURES

| Know anatostina | | Willin |) home shelter | | | | |
|--------------------------|-----|--------|----------------|----------|-----|--|--|
| Know protective measures | No. | Yes | Don't know | Total, % | | | |
| measures | | | Respondents | , % | | | |
| Yes | 125 | 26 | 61 | 13 | 100 | | |
| No | 37 | 19 | 51 | 30 | 100 | | |

Table A70
WILLINGNESS TO BUILD \$100 HOME SHELTER RELATED TO STATED ACTION WHEN WARNING SIGNAL SOUNDS

| | | Willing | g to build \$100 | home shelter | |
|------------------|---------|------------|------------------|--------------|----------|
| Action | No. | Yes No | | Don't know | Total, % |
| | | | s, % | | |
| Get more informa | tion 20 | 15 | 65 | 20 | 100 |
| Take shelter | 79 | 32 | 52 | 16 | 100 |
| Evacuate city | 11 | 18 | 64 | 18 | 100 |
| Seek family | 14 | 21 | 57 | 22 | 100 |
| Other | 18 | 11 | 67 | 22 | 100 |
| Don't know | 15 | 13 | 80 | 7 | 100 |
| Disbelieve | 12 | 2 5 | 5 8 | 17 | 100 |
| Do nothing | 5 | 0 | 100 | 0 | 100 |

Table A71
WILLINGNESS TO BUILD \$100 HOME SHELTER RELATED TO WILLINGNESS TO BUY \$2 CIVIL DEFENSE BOOK, \$> HOME WARNING DEVICE, \$35 RADIATION DETECTION DEVICE, AND \$200 HOME SHELTER

| | W | illing to b | ouild 510 | 0 home shelter | |
|---------------------------------|------------------|-------------|------------|----------------|----------|
| Action | No. | Yes | No | Don't know | Total, % |
| | | | Respond | lents, % | |
| Willing to buy \$2 civil defens | e book | | | | |
| Yes | 72 | 37 | 3 9 | 24 | 100 |
| No | 78 | 15 | 77 | 8 | 100 |
| Willing to buy \$5 home warni | ng device | • | | | |
| Yes | 67 | 43 | 43 | 14 | 100 |
| No | 81 | 14 | 70 | 16 | 100 |
| Willing to buy \$35 radiation o | detection device | | | | |
| Yes | 34 | 44 | 41 | 15 | 100 |
| No | 113 | 18 | 68 | 14 | 100 |
| Willing to build \$200 home sh | elter | | | | |
| Yes | 19 | 63 | 37 | 0 | 100 |
| No | 122 | 21 | 73 | 6 | 100 |

Table A72
SUPPORT OF FEDERAL SHELTER SYSTEM

(Q. It has been proposed that the federal government should build underground shelters in all cities and other target areas in the U.S. Each shelter would hold up to several thousand people for several weeks. Would you favor such a shelter program if it meant an increase for several years in your federal taxes of about \$0 to \$90 depending on your income?)

| R | esponse | Respondents, % | |
|---|-----------|----------------|--|
| Y | es | 69 | |
| И | 0 | 23 | |
| D | on't know | 8 | |
| | Total | 100 | |

Table A73

SUPPORT OF FEDERAL SHELTER SYSTEM RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| Favor | | Age, | years | | E | Education | | | Income, thous of dollars | | | | Area of residence | |
|--------------------|------|----------------|-------|------|---------|----------------|-----------------|-----|--------------------------|-----|-----|------|-------------------|--|
| federal shelter | - 30 | 31 – 45 | 46-60 | 61 + | College | High school | Grade school | -4 | 4-6 | 6-8 | 8+ | D.C. | Suburbs | |
| system | | Respondents, % | | | | | | | | | | | | |
| Yes | 78 | 67 | 71 | 54 | 67 | 70 | 69 | 72 | 6 9 | 67 | 65 | 77 | 58 | |
| No | 13 | 26 | 20 | 35 | 25 | 22 | 19 | 24 | 20 | 29 | 21 | 17 | 31 | |
| Don't know | 9 | 7 | 9 | 11 | 8 | 8 | 12 | 4 | 11 | 4 | 14 | 6 | 11 | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |

Table A74

SUPPORT OF FEDERAL SHELTER SYSTEM RELATED TO WILLINGNESS TO BUY \$2 CIVIL DEFENSE BOOK, HAVE HOME WARNING DEVICE, BUY \$35 RADIATION DETECTION DEVICE, AND BUILD \$100 HOME SHELTER

| | | Support | federal | shelter system | |
|---|------------|---------|---------|----------------|----------|
| Actions | No. | Yes No | | Don't know | Total, % |
| | | | Res | ondents, % | |
| Willing to buy 32 civil defense book | | | | | |
| Yes | 139 | 78 | 11 | 11 | 100 |
| No | 160 | 61 | 33 | 6 | 100 |
| Willing to have home warning device | | | | | |
| Yes | 187 | 73 | 17 | 10 | 100 |
| No | 112 | 63 | 32 | 5 | 100 |
| Willing to buy \$35 radiation detection | device | | | | |
| Yes | 59 | 83 | 10 | 7 | 100 |
| No | 233 | 64 | 28 | 8 | 100 |
| Willing to build \$100 home shelter | | | | | |
| Yes | 40 | 80 | 13 | 7 | 100 |
| No | 97 | 53 | 40 | 7 | 100 |
| Don't know | 2 8 | 54 | 25 | 21 | 100 |
| No space | 157 | 78 | 15 | 7 | 100 |

Table A75
WILLINGNESS TO TAKE 10-HR CIVIL DEFENSE COURSE

(Q. Would you take a 10-hour basic civil defense course?)

| Response | Respondents, % |
|------------|----------------|
| Yes | 54 |
| No | 36 |
| Don't know | 10 |
| Total | 100 |

Table A76

WILLINGNESS TO TAKE 10-HRCIVIL DEFENSE COURSE RELATED TO AGE, EDUCATION, INCOME AND AREA OF RESIDENCE

| Willing to take 10-hr | | Age, years | | | | Education | | | Income, thous of dollars | | | | Area of residence | |
|--------------------------|-----------|------------|-------|-----------|------------|----------------|-----------------|-----|-----------------------------|-----|----------|-------------|-------------------|--|
| civil defense | - 30 | 31 - 45 | 46-60 | 61 + | College | High school | Grade school | -4 | 4-6 | 6-8 | 8+ | D.C. | Suburbs | |
| course | | | | | | Resp | ondents, | % | | | <u> </u> | | | |
| Yes | 61 | 60 | 50 | 40 | 59 | 54 | 39 | 46 | 64 | 52 | 56 | 54 | 55 | |
| No | 30 | 29 | 38 | 54 | 3 0 | 34 | 55 | 45 | 28 | 37 | 31 | 3 8 | 33 | |
| Don't know | 9 | 11 | 12 | 6 | 11 | 12 | 6 | y | 8 | 11 | 13 | 8 | 12 | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |

Table A77
WILLINGNESS TO TAKE 10-HR CIVIL DEFENSE COURSE RELATED TO THREAT OF WAR

| | | | Willing to | take 10- | hr civil defense co | urse |
|-----------|---------------------|-----|------------|----------|---------------------|----------|
| Threat | | No. | Yes | No | Don't know | Total, % |
| | | | | Respo | ndents, % | |
| Chance of | war in 2 years | | | | | |
| | Certain - good | 35 | 71 | 23 | 6 | 100 |
| | Fifty-fifty | 62 | 63 | 31 | 6 | 100 |
| | Some - no chance | 185 | 50 | 36 | 14 | 100 |
| Chance D. | C. will be attacked | | | | | |
| | Good | 202 | 50 | 37 | 13 | 100 |
| | Fair | 59 | 63 | 32 | 5 | 100 |
| | Not much | 39 | 67 | 31 | 2 | 100 |
| Chance of | survival | | | | | |
| | Excellent -good | 37 | 62 | 32 | 6 | 100 |
| | Fifty-fifty | 62 | 55 | 40 | 5 | 100 |
| | Poor - no chance | 200 | 53 | 34 | 13 | 100 |

Table A78

APPROVAL OF COMPULSORY CIVIL DEFENSE WORK

(Q. Would you approve or disapprove of a plan to require every man and woman to spend an average of one hour a week in civil defense work?)

| Response | Respondents, % |
|------------|----------------|
| Approve | 65 |
| Disapprove | 27 |
| Undecided | 8 |
| Total | 100 |

Table A79

APPROVAL OF COMPULSORY CIVIL DEFENSE WORK RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| Approve civil defens | se | Age | , years | | | ducation | | | come, f dolla | | | | ea of idence |
|----------------------|------|---------|---------|------------|---------|----------|----------|------|------------------|------------|-----|------|-----------------|
| work | - 30 | 31 - 45 | 46-60 | 61 | College | High | Grade | -4 | 4-6 | 6-8 | 8+ | D.C. | Suburus |
| l hr | L | ĺ | 1 | 1 | L | school | school | 1 | 1 | [| 1 | | |
| per week | | | | | | Res | pondents | 3, % | | | | | |
| Yes | 59 | 64 | 70 | 6 5 | 51 | 74 | 78 | 70 | 68 | 58 | 58 | 72 | 55 |
| No | 32 | 30 | 22 | 27 | 37 | 22 | 18 | 26 | 22 | 2 9 | 35 | 23 | 33 |
| Can't decid | le 9 | 5 | 8 | 8 | 12 | 4 | 4 | 4 | 10 | 13 | 7 | 5 | 12 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table A80
SUPPORT OF COMPULSORY CIVIL DEFENSE WORK 1 HR PER WEEK
RELATED TO THREAT OF WAR

| | | Support compulsory civil defense work 1 hr per week | | | | | | | |
|--------------------------|-----------|---|------------|------------|----------|--|--|--|--|
| Threat | No. | Yes No | | Don't know | Total, % | | | | |
| | | Respondents, % | | | | | | | |
| Chance of war in 2 years | | | | | | | | | |
| Certain - good | 35 | 8 3 | 17 | 0 | 100 | | | | |
| Fifty-fifty | 62 | 74 | 21 | 5 | 100 | | | | |
| Some - no chance | 185 | 61 | 29 | 10 | 100 | | | | |
| Chance of survival | | | | | | | | | |
| Excellent - good | 37 | 59 | 3 5 | 6 | 100 | | | | |
| Fifty-fifty | 62 | 63 | 29 | 8 | 100 | | | | |
| Poor - no chance | 200 | 69 | 23 | 8 | 100 | | | | |

Table A81

WILLINGNESS TO TAKE FIRST-AID COURSE

Q. Would you take a 7-to 10-hr refresher course in first-aid (if the person has taken a first-aid course)? Would you take a 12- to 15-hr first-aid course?]

| | | |
|-----------------|----------------|--|
| Response | Respondents, % | |
| Yes | 63 | |
| No | 33 | |
| Don't know | 4 | |
| Total | 100 | |

Table A82
WILLINGNESS TO TAKE FIRST-AID COURSE RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| Willing to | • | Age | years | | | Educatio | n | | come, | thous | , | | rea of idence |
|-------------------|------------|---------|---------|------------|---------|----------------|----------------|------------|-------|-------|-----|------|------------------|
| take first-aid | - 30 | 31 - 45 | 46 - 60 | 61 + | College | High school | Grade schoo | 1 | 4-6 | 6-8 | 8+ | D.C. | Suburbs |
| course | | | | | | Resp | ondent | s, % | | · | | | |
| Yes | 7 5 | 70 | 57 | 42 | 63 | 68 | 31 | ა5 | 74 | 63 | 61 | 65 | 61 |
| No | 24 | 27 | 36 | 5 2 | 33 | 28 | 43 | 3 9 | 24 | 33 | 34 | 32 | 33 |
| Don't know | 1 | 3 | 7 | 6 | 4 | 4 | 6 | 6 | 2 | 4 | 5 | 3 | 6 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 190 | 100 |

Table A83

EXPERIENCE WITH FIRST-AID COURSE RELATED TO WILLINGNESS TO AGAIN TAKE FIRST-AID COURSE

| Have had first-aid training course | | Willing to | | | |
|------------------------------------|-----|------------|------|------------|----------|
| | No. | Yes | No | Don't know | Total, % |
| training course | | | s, % | | |
| Yes | 171 | 68 | 29 | 3 | 100 |
| No | 151 | 58 | 36 | 6 | 100 |

Table A84
WILLINGNESS TO TAKE 10-HR CIVIL DEFENSE COURSE RELATED TO WILLINGNESS TO TAKE
FIRST-AID COURSE

| ******* | | Willing to tal | Willing to take 10-hr civil defense course | | | | | |
|------------------|-----|----------------|--|------------|----------|--|--|--|
| Willing to take | No. | Yes | No | Don't know | Total, % | | | |
| first-aid course | | | Responden | ts, % | L | | | |
| Yes | 203 | 80 | 12 | 8 | 100 | | | |
| No | 105 | 11 | 84 | 5 | 100 | | | |

Table A85
SUPPORT OF COMPULSORY CIVIL DEFENSE WORK 1 HR PER WEEK RELATED TO KNOWLEDGE OF LOCAL CIVIL DEFENSE ACTIVITIES AND TO WILLINGNESS TO TAKE FIRST-AID
COURSE

| | | Support of con | npulsory c | ivil defense work I hr pe | er week | | | |
|---|-----|----------------|------------|---------------------------|----------|--|--|--|
| Knowledge, willingness | No. | Yes | No | Don't know | Total, % | | | |
| | | Respondents, % | | | | | | |
| Knowledge of local civil defense activities | | | | | | | | |
| Yes | 66 | 5 5 | 41 | 4 | 100 | | | |
| No | 249 | 67 | 24 | 9 | 100 | | | |
| Willing to take first-aid | | | | | | | | |
| course | | | | | | | | |
| Yes | 203 | 71 | 23 | 6 | 100 | | | |
| No | 105 | 5 2 | 36 | 12 | 100 | | | |

Table A86 MEDIA BY WHICH CIVIL DEFENSE INFORMATION HAS BEEN RECEIVED (Q. From what sources do you recall having received civil defense information?)

| Response | Respondents, % | |
|-----------------------|----------------|--|
| Pamphlets | 34 | |
| Newspapers, magazines | 22 | |
| | | |

| Pamphlets 34 Newspapers, magazines 22 TV 20 Radio 19 Personal contact 17 At work or school 8 Lectures, movies, exhibits, etc. 5 Other 3 | | Response | Respondents, % | |
|---|-------------|-------------------------------|----------------|--|
| TV 20 Radio 19 Personal contact 17 At work or school 8 Lectures, movies, exhibits, etc. 5 Other 3 | | Pamphlets | 34 | |
| Radio 19 Personal contact 17 At work or school 8 Lectures, movies, exhibits, etc. 5 Other 3 | | Newspapers, magazines | 22 | |
| Personal contact 17 At work or school 8 Lectures, movies, exhibits, etc. 5 Other 3 | | TV | 20 | |
| At work or school 8 Lectures, movies, exhibits, etc. 5 Other 3 | | Radio | 19 | |
| Lectures, movies, exhibits, etc. 5 Other 3 | | Personal contact | 17 | |
| Other 3 | | At work or school | 8 | |
| | | Lectures, movies, exhibits, e | tc. 5 | |
| Double lovers 10 | | Other | 3 | |
| Don't know 18 | | Don't know | 18 | |
| Total ^a 146 | | Total ^a | 146 | |

a Total is more than 100 because of multiple responses.

Table A87 SOURCE OF CIVIL DEFENSE INFORMATION RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| Source | | Age, | years | 1 | E | Education | | | of do | | s | | rea of sidence |
|----------------------------------|-----|-------|-------|-------|---|----------------|-----------------|-----|-------|-----|----------|-----|----------------|
| of L information | -30 | 31-45 | 46-60 | 0 61+ | College | High school | Grade school | -4 | | 6-8 | 8+ | | Suburbs |
| | | | | | • | Respon | dents, % | | | | _ | | |
| Radio | 28 | 18 | 15 | 15 | 16 | 22 | 20 | 21 | 16 | 23 | 17 | 20 | 18 |
| TV | 28 | 20 | 20 | 13 | 15 | 28 | 16 | 19 | 14 | 29 | 23 | 20 | 21 |
| Newspapers, magazines | 18 | 19 | 28 | 23 | 39 | 19 | 10 | 17 | 18 | 25 | 30 | 21 | 23 |
| Pamphlets | 41 | 40 | 26 | 23 | 43 | 32 | 12 | 21 | 36 | 42 | 41 | 29 | 40 |
| Personal contact | 16 | 17 | 16 | 19 | 22 | 16 | 4 | 10 | 19 | 13 | 24 | 13 | 22 |
| Other | 4 | 3 | 3 | 4 | 1 | 5 | 6 | 2 | 6 | 4 | 2 | 5 | 1 |
| None, don't know | 11 | 17 | 14 | 38 | 10 | 15 | 47 | 34 | 13 | 10 | 8 | 20 | 15 |
| At work or school | 12 | 8 | 9 | 4 | 8 | 11 | 2 | 8 | 10 | 8 | 8 | 13 | 3 |
| Lectures, movies, meetings | 8 | 3 | 5 | 2 | 5 | 6 | 0 | 6 | 7 | 4 | 1 | 6 | 3 |
| Totala | 166 | 145 | 136 | 141 | 159 | 154 | 117 | 138 | 139 | 158 | 154 | 147 | 146 |

Total is more than 100 because of multiple responses.

Table A88
SOURCE OF CIVIL DEFENSE INFORMATION RELATED TO KNOWLEDGE OF PROTECTIVE MEASURES, STATED KNOWLEDGE OF WARNING SIGNALS, KNOWLEDGE OF RADIO, AND KNOWLEDGE OF CONELRAD

| | | | Sou | irce of ci | vil defer | se inform | | | | | , |
|----------------------|-----|-------|-----|---------------------------|----------------|---------------------|-------|------|----|-----------------------|--------------------|
| Knowledge sources | No. | Radio | ΤV | News- papers, maga- | Pam- phlets | Personal contact | Other | None | | Lectures, meetings | Total |
| Sources | | | | zines | | | | | | | 1 |
| | | | | | Re | spondents | , % | | | | 1 _ |
| Know protective | | | | | | | | | | | |
| measures | | | | | | | | | | | |
| Yes | 232 | 22 | 24 | 23 | 40 | 20 | 3 | 9 | 9 | 5 | 155 |
| No | 83 | 12 | 13 | 20 | 14 | 10 | 6 | 40 | 6 | 4 | 125 |
| Stated knew warn- | | | | | | | | | | | |
| ing signals | | | | | | | | | | | |
| Yes | 220 | 16 | 19 | 25 | 40 | 20 | 3 | 15 | 7 | 3 | 148 |
| No | 91 | 25 | 23 | 15 | 20 | 9 | 4 | 25 | 10 | 8 | 139 |
| Source of informa- | | | | | | | | | | | |
| tion when attacked | | | | | | | | | | | |
| Telephone | 71 | 25 | 27 | 28 | 15 | 13 | 7 | 15 | 4 | 3 | 137 |
| Radio | 171 | 20 | 21 | 20 | 44 | 22 | 1 | 9 | 9 | 6 | 152 |
| Knowledge of | | | | | | | | | | | |
| CONELRAD | | | | | | | | | | | |
| Know | | | | | | | | | | | |
| CONELRAD | 139 | 24 | 24 | 23 | 44 | 18 | 3 | 7 | 12 | 7 | 162 |
| Spin dial | 43 | 19 | 19 | 21 | 27 | 21 | 0 | 23 | 5 | 5 | 140 |
| Local station | 77 | 17 | 16 | 16 | 30 | 19 | 8 | 25 | 4 | 3 | 138 |

Total is more than 100 because of multiple responses.

Table A89

PREFERRED MEDIUM FOR CIVIL DEFENSE INFORMATION

(Q. What would be the best way for civil defense authorities to get information to you about civil defense?)

| Response | Respondents, % | |
|-------------------------------|----------------|--|
| Pamphlets and posters | 39 | |
| TV | 23 | |
| Radio | 20 | |
| Courses, meetings, lectures | 16 | |
| Personal contact | 14 | |
| Newspapers, magazines | 12 | |
| At work, school | 4 | |
| Other | 5 | |
| Don't know or wants no inform | nation 2 | |
| Total ^a | 135 | |

a Total is more than 100 because of multiple responses.

Table A90

PREFERRED MEDIUM FOR CIVIL DEFENSE INFORMATION RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| | | Age | , years | | | Educat | ion | | come | , thou lars | s | Area of residence | | |
|-------------------------|----------------|-------|---------|-----|---------|----------------|-----------------|-----|------|----------------|-----|-------------------|---------|--|
| Medium | - 30 | 31-45 | 46-60 | 61+ | College | High school | Grade school | -4 | 4-6 | 6-8 | 8+ | D.C. | Suburbs | |
| | Respondents, % | | | | | | | | | | | | | |
| Radio | 21 | 18 | 17 | 29 | 20 ` | 19 | 25 | 23 | 16 | 25 | 19 | 16 | 26 | |
| TV | 26 | 25 | 21 | 19 | 24 | 23 | 20 | 18 | 18 | 25 | 33 | 20 | 27 | |
| Newspapers, | | | | | | | | | | | | | | |
| magazines | 11 | 13 | 13 | 10 | 17 | 8 | 10 | 9 | 13 | 15 | 13 | 12 | 13 | |
| Pamphlets | ó0 | 41 | 28 | 35 | 40 | 43 | 24 | 42 | 43 | 31 | 34 | 43 | 33 | |
| Personal | | | | | | | | | | | | | | |
| contact | 13 | 11 | 16 | 15 | 10 | 16 | 18 | 17 | 13 | 8 | 14 | 14 | 13 | |
| Other | 7 | 5 | 8 | 0 | 4 | 7 | 4 | 3 | 7 | 2 | 8 | 6 | 4 | |
| Courses, | | | | | | | | | | | | | | |
| meetings | 15 | 10 | 21 | 21 | 20 | 12 | 16 | 12 | 18 | 21 | 15 | 14 | 18 | |
| Work, school | 3 | 6 | 5 | 2 | 6 | 3 | 4 | 2 | 4 | 6 | 7 | 5 | 4 | |
| Don't know, wants no | | | | | | | | | | | | | | |
| information | 0 | 3 | 3 | 4 | 3 | l | 6 | 3 | 4 | 0 | 3 | 2 | 4 | |
| Total ^a | 146 | 132 | 132 | 135 | 144 | 132 | 127 | 129 | 136 | 133 | 146 | 132 | 142 | |

a Total is more than 100 because of multiple responses.

Table A91

PREFERRED MEDIUM FOR CIVIL DEFENSE INFORMATION RELATED TO MEDIUM BY WHICH CIVIL DEFENSE INFORMATION HAS BEEN RECEIVED IN PAST

| Medium of | | | | | Pr | eferred Me | dium | | | | |
|-----------------------------------|------------|-------|----|------------------------------------|----|------------------|------|----|----|---------------------------------------|--------------|
| civil defense information in past | No. | Radio | TV | News- papers, maga- zines | | Personal contact | | | | Don't know wants no information | : % a |
| D- 41 - | | | | 15 | | | | 10 | | | 161 |
| Radio | 61 | 31 | 31 | 15 | 41 | 13 | 2 | 16 | 2 | 0 | 151 |
| TV | 66 | 21 | 41 | 6 | 36 | 17 | 2 | 14 | 3 | 2 | 142 |
| Newspapers, | | | | | | | | | | | |
| magazines | 71 | 18 | 23 | 24 | 41 | 14 | 4 | 13 | 1 | 0 | 138 |
| Pamphlets | 108 | 18 | 24 | 7 | 53 | 9 | 4 | 17 | 4 | 2 | 138 |
| Personal | | | | | | | | | | | |
| contact | 54 | 26 | 35 | 13 | 30 | 28 | 9 | 13 | 4 | 2 | 160 |
| Other | 11 | 9 | 18 | 0 | 55 | 18 | 0 | 18 | 9 | 0 | 127 |
| None, don't | | | | | | | | | | | |
| know | 5 7 | 30 | 11 | 12 | 19 | 18 | 4 | 19 | 4 | 9 | 126 |
| Work, school | 27 | 7 | 15 | 4 | 41 | 7 | 11 | 19 | 22 | Ö | 126 |
| Lectures, meetings, | | | | | | | | • | | | |
| movies | 15 | 13 | 27 | 7 | 40 | 0 | 0 | 27 | 0 | 7 | 121 |

a Total is more than 100 because of multiple responses.

Table A92
DESIRE FOR CIVIL DEFENSE INFORMATION

(Q. Is there anything about civil defense or atomic warfare you would like to know more about? What?)

| Response | Respondents, % |
|--------------------------------------|--|
| Yes | 66 |
| General information on civil defense | The state of the s |
| self-protection | (78) |
| Location and use of shelters | (5) |
| Radiation, fallout | (4) |
| Evacuation plans | (2) |
| Warning signals | (2) |
| Other | (9) |
| No | 34 |
| Total | 100 |

Table A93

DESIRE FOR CIVIL DEFENSE INFORMATION RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| Want civil | | Age, | , years | | E | Education | | | | , thou llars | Area of residence | | |
|---------------------|--|---------|---------|------------|---------|----------------|-----------------|------|-----|-----------------|-------------------|------|---------|
| defense information | | 31 – 45 | 46 - 60 | 61 + | College | High school | Grade school | i | 4-6 | 6-8 | 8+ | D.C. | Suburbs |
| | ــــــــــــــــــــــــــــــــــــــ | | | | | Resp | ondent | B, % | | | | | |
| Yes | 74 | 72 | 62 | 44 | 70 | 63 | 59 | 61 | 74 | 5 4 | 70 | 67 | 63 |
| No | 23 | 28 | 38 | 5 6 | 30 | 37 | 41 | 39 | 26 | 46 | 30 | 33 | 37 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table A94
WILLINGNESS TO BUY \$2 CIVIL DEFENSE BOOK

(Q. Would you buy a book costing \$2.00 which would contain information about probable kinds of enemy attack on Washington, our defenses against attack, and things your community and you yourself can do to increase your chances of survival?)

| Response | Respondents, % | |
|--------------|----------------|--|
| Yes | 43 | |
| No | 50 | |
| Don't know | 7 | |
| Total | 100 | |

Table A95
WILLINGNESS TO BUY \$2 CIVIL DEFENSE BOOK RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| Willing | | Age | , years | | Education | | | | Income, thous of dollars | | | | Area of residence | |
|----------------|------------|---------|---------|------|-----------|----------------|-----------------|-----|--------------------------|-----|-----|------|-------------------|--|
| to buy book | - 30 | 31 - 45 | 46 - 60 | 61 + | College | High school | Grade school | { | 4-6 | 6-8 | 8+ | D.C. | Suburbs | |
| | <u></u> | | | | | Resp | ondents | , % | | | | | | |
| Yes | 5 7 | 44 | 41 | 23 | 37 | 50 | 41 | 47 | 51 | 25 | 42 | 47 | 38 | |
| No | 39 | 47 | 51 | 69 | 58 | 43 | 4 5 | 46 | 41 | 71 | 50 | 48 | 5 3 | |
| Don't know | 4 | 9 | 8 | 8 | õ | 7 | 14 | 7 | 8 | 4 | 8 | 5 | 9 | |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |

Table A96
WILLINGNESS TO BUY \$5 HOME WARNING DEVICE RELATED TO WILLINGNESS TO BUY \$2
CIVIL DEFENSE BOOK

| Willing to | | Willing to | o buy \$5 hom | ne warning device | |
|------------|--------|------------|---------------|-------------------|----------|
| buy book | Number | Yes | No | Don't know | Total, % |
| | | | Responden | ts, % | |
| Yes | 139 | 65 | 27 | 8 | 100 |
| No | 160 | 21 | 69 | 10 | 100 |

Table A97
SOURCE OF CIVIL DEFENSE INFORMATION RELATED TO WILLINGNESS TO BUY \$2 CIVIL DEFENSE BOOK

| Willing to buy book | No. | Radio | TV | News- papers, maga- zines | Pam- | f civil defer Personal contact | | None | Work, | Lectures, meetings | Total, |
|---------------------------|-----|-------|-----------|------------------------------------|------|--------------------------------------|---|------|-------|-----------------------|----------|
| | | | | | Re | espondents, | % | | | | <u> </u> |
| Yes | 139 | 17 | 23 | 22 | 47 | 15 | 4 | 17 | 9 | 2 | 156 |
| No | 160 | 20 | 20 | 24 | 31 | 17 | 3 | 17 | 9 | 6 | 147 |

Total is more than 100 because of multiple responses.

Table A98
OPINION OF CIVIL DEFENSE

(Q. What is your opinion of civil defense?)

| Response | Respondents, % |
|--|----------------|
| Favorable comments on purpose and/or | |
| organization of civil defense | 64 |
| Unfavorable comments on purpose and/or | |
| organization of civil defense | 17 |
| No opinion, lacks any information | 19 |
| Total | 100 |

Table A99
OPINION OF CIVIL DEFENSE RELATED TO THREAT OF WAR

| | 1 | ∪pi | nion of civil defen | se | | |
|--------------------------|---------|-----------|---------------------|------------|----------|--|
| Threat | No. | Favorable | Unfavorable | No opinion | Total, % | |
| | <u></u> | | | | | |
| Chance of war in 2 years | 3 | | | | | |
| Certain - good | 35 | 74 | 2 0 | 6 | 100 | |
| Fifty-fifty | 62 | 71 | 10 | 19 | 100 | |
| Some - no chance | 185 | 64 | 18 | 18 | 100 | |
| Bomb on Washington | | | | | | |
| Yes | 188 | 60 | 21 | 19 | 100 | |
| No | 76 | 71 | 14 | 15 | 100 | |
| Chance of survival | | | | | | |
| Excellent - good | 37 | 68 | 19 | 13 | 100 | |
| Fifty-fifty | 62 | 78 | 11 | 11 | 100 | |
| Poor - no chance | 200 | 61 | 19 | 20 | 100 | |

Table A100

OPINION OF CIVIL DEFENSE RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| | | | years | | E | Education | | | Income, thous of dollars | | | | rea of sidence |
|---|------|-------|-------|------------|---------|----------------|-----------------|-----|--------------------------|-----|-----|------|----------------|
| Opinion | - 30 | 31-45 | 46-60 | 61 + | College | High school | Grade school | -4 | 4-6 | 6-8 | 8+ | D.C. | Suburbs |
| | | | | | | Resp | ondents | %_ | | | | | |
| Favorable comments on civil defense Unfavorable comments on civil | 71 | 61 | 63 | 63 | 65 | 70 | 49 | 63 | 65 | 63 | 65 | 65 | 6 4 |
| defense | 16 | 15 | 21 | 14 | 24 | 12 | 8 | 9 | 17 | 25 | 21 | 16 | 18 |
| No opinion | 13 | 24 | 16 | 2 3 | 11 | 18 | 43 | 28 | 18 | 12 | 14 | 19 | 18 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table Alol

OPINION OF CIVIL DEFENSE RELATED TO KNOWLEDGE OF PROTECTIVE MEASURES AND LOCAL CIVIL DEFENSE ACTIVITIES, SUPPORT OF FEDERAL SHELTER PROGRAM AND COMPULSORY CIVIL DEFENSE WORK I HR PER WEEK, AND WILLINGNESS TO TAKE 10-HR CIVIL DEFENSE COURSE

| Response | | Opi | | | |
|-----------------------|------------|-------------|----------------|------------|----------|
| | No. | Favorable ' | Unfavorable | No opinion | Total, % |
| | | | Respondents, % | | |
| Knowledge of protec | tive | | | | |
| measures | | | | | |
| Yes | 232 | 67 | 19 | 14 | 100 |
| No | 83 | 57 | 11 | 32 | 100 |
| Knowledge of local of | civil | | | | |
| defense activities | | | | | |
| Yes | 66 | 71 | 15 | 14 | 100 |
| No | 249 | 62 | 18 | 20 | 100 |
| Favor federal shelte | er system | | | | |
| Yes | 221 | 68 | 15 | 17 | 100 |
| No | 74 | 5 5 | 20 | 25 | 100 |
| Favor civil defense | work | | | | |
| l hr per week | | | | | |
| Yes | 208 | 65 | 15 | 20 | 100 |
| No | 8 9 | 5 7 | 23 | 20 | 100 |
| Willing to take 10-h | r civil | | | | |
| defense course | | | | | |
| Yes | 174 | 67 | 13 | 20 | 100 |
| No | 115 | 64 | 18 | 18 | 100 |

Table Al02

KNOWLEDGE OF LOCAL CIVIL DEFENSE ACTIVITIES

Q. Have you heard or read anything about what civil defense officials are doing or planning to do in this city (county)? What have you heard or read?

| Response | Respondents, $\sqrt[6]{0}$ | |
|-----------------------------------|----------------------------|--|
| Yes | 20 | |
| Evacuation of officials | (18) | |
| Shelter plans | (15) | |
| Meetings and courses | (11) | |
| General civil defense actions at | , , | |
| attack time | (18) | |
| General comments on civil defense | , , | |
| organization | (9) | |
| Vague and inappropriate answers | (Ì5) | |
| Do not remember | (24) | |
| No | 78 | |
| Don't know | 2 | |
| Total | 100 | |

Table A103

KNOWLEDGE OF LOCAL CIVIL DEFENSE ACTIVITIES RELATED TO AGE, EDUCATION, INCOME, AND AREA OF RESIDENCE

| Knows of | | Age, years | | | Education | | | | Income, thous of dollars | | | Area of residence | |
|--------------------------------------|----------|------------|-----------------|------|-----------|----------------|----------------------------|-------|-----------------------------|-----|-----|-------------------|---------|
| local civil defense activities | - 30 | 31 - 45 | 4 6 – 60 | 61 + | College | High school | Grade school ondents | l | 4-6 | 6-8 | 8+ | D.C. | Suburbs |
| | <u> </u> | | | | | Resi | ondenta | 5, /0 | | | | | |
| Yes | 20 | 21 | 22 | 19 | 25 | 19 | 12 | 19 | 25 | 17 | 20 | 28 | 11 |
| No | 80 | 77 | 75 | 79 | 74 | 77 | 88 | 80 | 72 | 83 | 76 | 69 | 88 |
| Don't know | 0 | 2 | 3 | 2 | 1 | 4 | 0 | 1 | 3 | 0 | 4 | 3 | 1 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Table A104
KNOWLEDGE OF LOCAL CIVIL DEFENSE ACTIVITIES RELATED TO AGE, EDUCATION, AND AREA OF RESIDENCE

(N = 66, Those who had heard of local civil defense activities)

| Aatinitu | | | , years | | Education | | | | Area of residence | |
|------------------------------------|--------------|---------|---------|------|-----------|-------------|--------------|------|-------------------|--|
| Activity | - 30 | 31 - 45 | 46 - 60 | 61 + | College | High school | Grade school | D.C. | Suburbs | |
| | | | | | Res | ondents, % | | | | |
| Evacuation of officials | 33 | 18 | 15 | 0 | 29 | 8 | 0 | 39 | 9 | |
| Shelter plans | 20 | 14 | 15 | 11 | 11 | 24 | 0 | 32 | S | |
| Meetings, courses | 13 | 14 | 10 | 0 | 11 | 12 | 0 | 14 | 28 | |
| Civil defense organization | 0 | 18 | 0 | 22 | 6 | 12 | 17 | 21 | 0 | |
| Civil defense action when attacked | s 27 | 23 | 15 | 0 | 14 | 24 | 17 | 28 | 36 | |
| Vague comments | 20 | 9 | 15 | 22 | 11 | 20 | 17 | 25 | 33 | |
| Do not remember | 13 | 18 | 30 | 45 | 29 | 12 | 49 | 43 | 36 | |
| Total ^a | 1 2 6 | 114 | 100 | 100 | 111 | 112 | 100 | 202 | 146 | |

^a Total is more than 100 because of multiple responses.

Table Al05
KNOWLEDGE OF LOCAL CIVIL DEFENSE ACTIVITIES RELATED TO THREAT OF WAR

| Opinion on | | Know about lo | Total, % | | |
|--------------------------|------|-----------------|----------|---|-----|
| | No. | Yes No Not sure | | | |
| | | R | 0 | 1 | |
| Chance of war in 2 year | s | | | | |
| Certain - good | 35 | 29 | 69 | 2 | 100 |
| Fifty-fifty | 62 | 14 | 86 | 0 | 100 |
| Some - no chance | 185 | 23 | 76 | 1 | 100 |
| Chance D.C. will be atta | cked | | | | |
| Good | 202 | 20 | 78 | 2 | 100 |
| Fair | 59 | 29 | 69 | 2 | 100 |
| Not much | 39 | 15 | 85 | 0 | 100 |
| Bomb on Washington | | | | | |
| Yes | 188 | 2 5 | 73 | 2 | 100 |
| No | 76 | 20 | 80 | 0 | 100 |
| Chance of survival | | | | | |
| Excellent - good | 37 | 32 | 65 | 3 | 100 |
| Fifty-fifty | 62 | 2 9 | 68 | 3 | 100 |
| Poor - none | 200 | 16 | 83 | 1 | 100 |

Table Al06

KNOWLEDGE OF LOCAL CIVIL DEFENSE ACTIVITIES RELATED TO KNOWLEDGE OF FALLOUT, PROTECTIVE MEASURES, AND CONELRAD

| | No. | Have heard of | | | | | |
|--------------------------|-----|---------------|----------------|------------|----------|--|--|
| Response | | Yes | No | Don't know | Total, % | | |
| | | | Respondents, % | | | | |
| Have heard of fal:out | | | | | | | |
| Yes | 241 | 25 | 73 | 2 | 100 | | |
| No | 70 | 6 | 90 | 4 | 100 | | |
| Have heard of protective | | | | | | | |
| measures | | | | | | | |
| Yes | 232 | 24 | 73 | 3 | 100 | | |
| No | 83 | 10 | 88 | 2 | 100 | | |
| Knowledge of CONELRAI | | | | | | | |
| Knows CONELRAD | 139 | 30 | 69 | 1 | 100 | | |
| Spin dial | 43 | 14 | 8 4 | 2 | 100 | | |
| Local station | 77 | 13 | 87 | 0 | 100 | | |

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